

From qrp-request@Think.COM Sat Nov 20 15:03:59 1993
Date: Sat, 20 Nov 93 15:03:54 -0500
From: al838@cleveland.Freenet.Edu (Eric J. Grabowski)
Subject: 10 Meter QRP SSB

A couple of years ago, I bought a Radio Shack TRC-453 ssb CB radio and converted it to 10 meters. I got it new, on sale for \$120.00.

The conversion is very easy and consists of removing a capacitor and adding an oscillator. I built the oscillator on a scrap of pc board about the size of a postage stamp so it fits behind the channel selector switch. The oscillator uses a crystal and two MPF102 fets, one as the oscillator and the other as a follower.

I have made several contacts including W6, W7, VE5, VE6, and VE7 with reports between 5 x 8 and 5 x 10/9 using this radio and a Mosley TA-33 at 30 feet. Most stations commented on the excellent audio.

The only disadvantage, which is a result of my conversion, is that the RIT has very limited range, i.e. about 300 Hertz. I have since designed an L/C type oscillator with a varactor diode that provides enough RIT to span the distance between channels. Although I have a breadboard version working, I have not built it on a piece of pc board to fit into the radio like the existing one.

If you're looking for a qrp ssb transceiver for 10 meters, I would suggest that you consider this approach. There is not a lot of work involved, it is relatively inexpensive, and it does work.

---73, Eric

--

Eric Grabowski, WA8HEB al838@cleveland.freenet.edu
Chagrin Falls, Ohio

From qrp-request@Think.COM Sun Nov 21 16:08:51 1993
Date: Sun, 21 Nov 93 16:08:31 -0500
From: al838@cleveland.Freenet.Edu (Eric J. Grabowski)
Subject: Re: 10 Meter QRP SSB

jherman@uhunix.uhcc.Hawaii.Edu (Jeff Herman) NH6IL writes:

>Did you try CW with your CB/10M rig? I am curious if the PTT circuit of a CB radio can handle the fast keying needed in working CW.

No I didn't, Jeff. Since I wanted to use the radio in the phone sub-band between 28.3 and 28.7 MHz, it didn't seem appropriate. However, I did do some snooping and it would be quite easy to key the first driver transistor. Then, all you need is a simple electronic switch to get full QSK. This is on my list of things to try when time is available (not in the near future :-}).

jwill@cabell.vcu.edu (J. Sherwood Williams) writes:

>I would be VERY interested in the specifics of that Mod for the TRC-453. Perhaps a little schematic and connecting points to the main radio PC board?

Sure, Robert. It would be difficult to post the drawings to this list though, however, if you send me an SASE, I will photocopy the pages of my notebook and send them to you. The pages contain the schematic and pcb layout of my oscillator as well as the connection points marked on the original schematic diagram.

Incidentally, this mod also applies to Uniden and other CB radios that use the single-crystal synthesis method. So, if anyone else would like this info, just send me an SASE requesting it.

To save you time finding my address in the callbook or on-line, here it is:

Eric Grabowski WA8HEB
17020 Snyder Road
Chagrin Falls, OH 44023

BTW, the United States Postal Service (in their infinite wisdom) has changed my ZIPCODE to 44023 from 44022 even though my house is still located where it used to be. So the above is not a typo, just in case inquiring minds want to know.

swood@vela.acs.oakland.edu (Scott Wood) WQ8B writes:

>Could you send me more details?

Scott, see my previous comment.

>Where did you get the info to do the conversion?

Instinct ;-) Actually, I've been designing and building stuff for over 30 years, and to be honest, this project wasn't that challenging. In fact, I started building one Saturday morning and had my first QSO (with VE5ST, thanks Terry) at 1217 local time that same day. Of course, I did spend some time during the previous week studying the schematic and planning my attack to minimize the amount of hacking. I should mention that the reason I converted the radio was that I wanted a little 10 meter rig for the car, but didn't want to spend ~big bucks~ on one of those Uniden HR-25xx units.

>Is the radio still sold in the RS catalog?

The TR-453 was replaced with the TR-465 in 1992; however, the main boards are the same in both radios. The only difference is that the new one has a black front panel instead of chrome, and the ANL switch is now a slide type instead of being on the Squelch control.

>How much were the parts?

I have a well stocked junkie box, so all I had to buy was the crystal which was about \$7.00, if memory serves. If you had to buy all the parts new, the cost should be about \$15.00.

73

--

Eric Grabowski, WA8HEB
Chagrin Falls, Ohio

al838@cleveland.freenet.edu

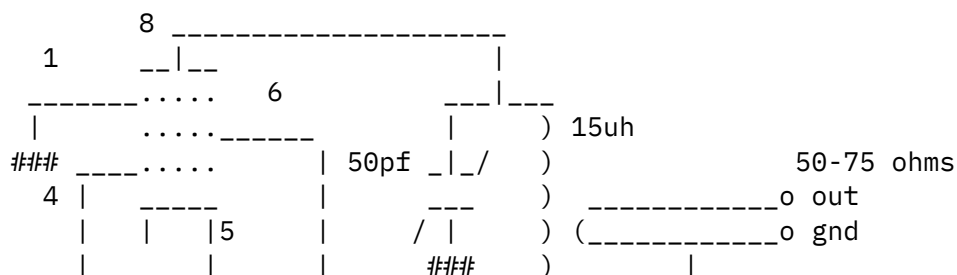
From qrp-request@Think.COM Fri Nov 26 17:27:41 1993

From: randy@cyphyn.radnet.com (Randy)

Subject: 6AG7 One tube qrp xmit

Date: Fri, 26 Nov 1993 17:23:38 -0500 (EST)

6AG7 one tube xmit 40 mtrs (daytimer)



```

+---[0]-----+-(-----+-(--+ |-----|      ###
|                | 22pf |220 |      |      |      |      |
### 7110kc    <      ( pf###      |      |      |      |
xtal          >      (      |      |      |      |
FT-243      56 >      ( 1 mh      o      ###      | common wire
K          >      (      170vdc      ### GND/chassie
|---)(---|
| .01 `---o key      decimal caps = uf
###      +---o      pf = uuf
/\      |      caps rated 250v
| |      ###      resis " 1/4 w any%
o o 6.3vac 650ma      all crossing lines are connected
2 7 heater

```

Tube socket, BOTTOM view

```

      4    5
      o    o
3o      o6
      2o    o7
      o v o
1 key 8      Expect 300 mw aprox output.
way

```

15 uh ... 35 turns 7/8" dia, 1 " long
link coil 6 turns #22 to 28 wire OK

50 pf ok if FRS's 55pf trimmer cap
Xtal W0LPS (CW Crystal co)
Tube socket FRS or Antique Electronic Supply (AES)

170vdc is from a 110-125vac xformer..whose 6.3 v 600 ma coil is wired to the Filament xformer (6.3vac 2 amps).

This converts 6.3 v back up to isolated 110vac.

A bridge rect (400piv 1 amp) followed by 220 uf 200vdc electrolytic will make 175-180vdc (no load).

At 35 ma, it may fall to 150vdc, but is OK for this rig.

Note...a 6CL6 or 12BY7 (different socket wiring) will work the same as this one will....so, a sub of tube (and rewire socket) can be done. Those 2 tubes are 9 pin mini tubes
12HG7 will sub 12BY7 directly. (if ya need info on that, buzz me)

Note... a 5902 sub-mini tube (direct-solder in like a transistor) will also work in ckt above, but B+ must be dropped to 90-120vdc.
A choke (8-16 hy 40ma) put between 220uf 200v and rect. will do that.

Tune up: Altho a 3 volt 25 ma bulb in series to the key will work as a current indicator, you can use station Rx set to tell when it is correctly tuned (least chirp & raspyness as you key). Full power does not quite occur at same point as best keying does... no loaded osc ever does....but you'll have same S-reading 'out there' so just go for a clean sig.

Start with the 50pf at full mesh, tap the key repeatedly and adj the cap until you hear the signal (see it on bulb as a sudden change in britness)..or see it on a watt meter (good luck!), if it can read that low.
Then adj for cleanest signal.

--

Randy KA1UNW	If you get a shock while	
	servicing your equipment,	"Works for me!"
randy@192.153.4.200	DON'T JUMP!	-Peter Keyes
	You might break an expensive tube!	

From qrp-request@Think.COM Tue Nov 30 03:37:31 1993
Date: Mon, 29 Nov 93 22:37:21 HST
From: Jeff Herman <jherman@uhunix.uhcc.Hawaii.Edu>
Subject: A gentle reminder

Gang,

Because some folks on here only have a limited mailbox capacity, let's please restrict the articles to QRP topics: By definition QRP means 5 watts or less xmt power. Associated topics include: kits, homebrew, batteries, antennas, operating hints, building tips, Chuck and Kevin, CB-to-Ham, and probably dozens of other neat stuff.

If it's not QRP-related, please consider posting on the wonderful rec.radio.xxx newsgroups.

Thanks so much!

Jeff NH6IL (ex: WA6QIJ)

From qrp-request@Think.COM Mon Nov 29 21:29:54 1993
Date: Mon, 29 Nov 1993 21:18:17 -0500 (EST)
From: howie cahn <howi@world.std.com>
Subject: Anyone work the DX contest this weekend??

Hi --

I was just wondering if anybody tried working the CQWW contest this past weekend QRP? I did with various pieces of equipment with 2-5 W out and dipoles. At times it was pretty frustrating. I could hear all kinds of loud stations, say at S9, but they couldn't hear me. Then, path propagation would improve, maybe 10 dB, and I could make QSOs for a while.

In any case, it was a good opportunity to try out a new xcvr I'd just built. It's a superhet rx/2w tx, built "ugly" style, loosely based on NN1G, K1BQT, K9AY, N4PC, etc. Anyone got any scores to report??

72/73,

howie, wb2cpu
howi@world.std.com

From qrp-request@Think.COM Tue Nov 30 11:46:39 1993
Date: Tue, 30 Nov 1993 10:46:26 -0600 (CST)
From: Peter Hardie <hardie@herald.usask.ca>
Subject: Re: Anyone work the DX contest this weekend??

> I was just wondering if anybody tried working the CQWW contest this
> past weekend QRP? Anyone got any scores to report??
A very half-hearted effort at 0.9W from here.
47QSOs 30Zones 39Countries 113Points = 7797.

2 of the QSOs on 10m. The others split between 20 and 15. I was using an IC735 with the wick turned down and a 2-el quad at 40 feet. The bands were awful but I did manage to get a couple of new QRP countries and some insurance QRP QSOs with countries I haven't confirmed yet.

73 de Pete
ve5va.qrp@usask.ca

From qrp-request@Think.COM Tue Nov 30 10:40:43 1993
Date: Tue, 30 Nov 93 14:58:21 GMT
From: jkearman@arrl.org (Jim Kearman)
Subject: ARRL Doesn't Sell Kits

Douglas J Renze <drenze@grind.isca.uiowa.edu> says:

> Yes. In a QST in the last year or so, there was a simple
> crystal-controlled receiver schematic for tuning into W1AW. With a few
> added components it converted into a QRP transceiver. Now, I believe that
> the ARRL sells the kits for \$24.95 or so each, but I believe they're
>

We don't sell kits. I believe the author of the article sells them, though. Boards are probably available from FAR Circuits. W1AW's 80-meter CW frequency is about 3581 kHz. That frequency is close enough to the US colorburst freq of 3579.545... kHz that you can use a colorburst crystal in the local oscillator of a direct-conversion

receiver. Kits may be available for other W1AW frequencies if you live outside the coverage area of our 80-meter signal.

For more information on who sells the kits, please email to tis%ltracy@arrl.org--Mike Tracy.

72, Jim, KR1S

From qrp-request@Think.COM Wed Nov 24 08:47:43 1993
Date: Wed, 24 Nov 1993 08:46:18 -0400 (EDT)
From: "Daniel J. Curtin" <CURTIN%NKUVAX.BITNET@uga.cc.uga.edu>
Subject: Re: Brooms and Oedipus

The dangers of slashes. What does the phrase "mom/wife" bring to the mind in this psychological age? I hope you meant mom OR wife; at least that leaves dormant these monsters lurking in the reptilian brain.

I suppose I had better stick to math, and soldering.

73,
Dan, KF4AV

Daniel J. Curtin
Department of Mathematics and Computer Science
Northern Kentucky University
Highland Heights, KY 41099-1700

CURTIN@NKUVAX.BITNET
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From qrp-request@Think.COM Wed Nov 24 12:29:24 1993
Date: Wed, 24 Nov 93 09:29:12 PST
From: paulb@harley.tti.com (Paul Blumstein)
Subject: Re: Brooms and Oedipus

Daniel J. Curtin writes:

+ The dangers of slashes.

And slashers ?-)

+What does the phrase "mom/wife" bring to the
+mind in this psychological age? I hope you meant mom OR wife; at least that
+leaves dormant these monsters lurking in the reptilian brain.

Yes, I meant "OR" cause I had no idea whether the story teller was married or living with his parents at the time of the incident. (I realize there are other possibilities: living alone, living with girlfriend, living with boyfriend, living with roommate, etc.; but adding all those in would have detracted from my concept).

I used a slash instead of "or" because I was too lazy & wanted to save time. Of, course, I am now taking more time explaining this than the time I saved. Oh, well.

From qrp-request@Think.COM Wed Nov 24 12:57:49 1993
From: randy@cyphyn.radnet.com (Randy)
Subject: Re: Brooms and Oedipus and echo-o-o
Date: Wed, 24 Nov 1993 12:57:37 -0500 (EST)

>
> The dangers of slashes. What does the phrase "mom/wife" bring to the
> mind in this psychological age? I hope you meant mom OR wife; at least that
> leaves dormant these monsters lurking in the reptilian brain.

>
> I suppose I had better stick to math, and soldering.

>
Woo! Good thing I ain't married then!

I too have gotten more than one of everything, but, me, being used to malfunctioning equipment, I just hit the D button and blip! no more copy.

The mailer I have won't let me reply ONLY to qrp@think.com... I have to do it as a CC ...and to go all the way back out, turn around, and go back in I find I have a mess to deal with...then I forget what I was gonna say...

heh heh...just keep hitting the D button.....

--

Randy KA1UNW	If you get a shock while	
	servicing your equipment,	"Works for me!"
randy@192.153.4.200	DON'T JUMP!	-Peter Keyes
	You might break an expensive tube!	

From qrp-request@Think.COM Fri Nov 26 10:35:32 1993
From: randy@cyphyn.radnet.com (Randy)
Subject: Re: Brooms and Oedipus, explained
Date: Wed, 24 Nov 1993 14:24:38 -0500 (EST)

And we ALMOST forgot about coils!

By the way, our system is gonna be down for 8 -10 hrs ...need to oil the disc drive...so I may lose all the recent mail... so if anyone has replied to me or asked something, and I don't respond, try again!

--

Randy KA1UNW If you get a shock while
 servicing your equipment, "Works for me!"
randy@192.153.4.200 DON'T JUMP! -Peter Keyes
 You might break an expensive tube!

From qrp-request@Think.COM Tue Nov 23 17:09:51 1993
From: "Kevin Anderson" <GGANDERSON@Augustana.edu>
Date: Tue, 23 Nov 1993 16:07:21 GMT-500
Subject: Budd MiniCoils

Can you still buy the Budd rewound coil stock?
You know, the open air stuff? Or is everything now done
with torrid cores?

I know you are all talking about coils on cardboard (and I
can get plenty of good thick cardboard tubes -- map mailers,
we get them all the time). But can a cardboard tube handle
RF, such as in a homebuilt antenna tuner, either for
shortwave receivers or QRP rigs? Do you have to factor in
the dielectric (cardboard) in one's calculations?

Still learning from y'all.....

72 de Kevin, KB9IUA
* * * * *
Kevin L. Anderson, Geography Dept., Augustana College
Rock Island, Illinois 61201 USA phone: (309) 794-7325
e-mail: gganderson@augustana.edu or kla@helios.augustana.edu
* * * * *

From qrp-request@Think.COM Tue Nov 23 18:07:56 1993
Subject: Re: Budd MiniCoils
Date: Tue, 23 Nov 93 18:08:01 EST
From: "John F. Woods" <jfw@ksr.com>

Um, Ocean State Electronics carried Miniductor stock last I saw their catalog.
1-800-866-6626

From qrp-request@Think.COM Tue Nov 23 18:17:10 1993
From: randy@cyphyn.radnet.com (Randy)
Subject: Re: Budd MiniCoils
Date: Tue, 23 Nov 1993 18:16:51 -0500 (EST)

I don't know about Budd...but B&W (Brown and Williamson) still makes all kinds of coil stock like you speak of...sizes from 3/4" to 4" dia and lengths to 10"

One more coil form:

A womans hair curler---plastic type....has the little nibs to line up each turn for you, for space-wound.

oh! one more!

Snitch off 2 " of broom stick handle.... cut off the round end and reglue it on the cut end, to look like it was not snitched.

Turns formula for broom stick handle is

sqr (83*uh) coil to be 1 " long

--

Randy KA1UNW	If you get a shock while	
	servicing your equipment,	"Works for me!"
randy@192.153.4.200	DON'T JUMP!	-Peter Keyes
	You might break an expensive tube!	

From qrp-request@Think.COM Tue Nov 23 19:30:03 1993
Date: Tue, 23 Nov 93 16:29:48 PST
From: paulb@harley.tti.com (Paul Blumstein)
Subject: Re: Budd MiniCoils

+Snitch off 2 " of broom stick handle.... cut off the round end
+and reglue it on the cut end, to look like it was not snitched.

+--

+Randy KA1UNW

Let me guess: your mom/wife thought she was getting taller
because her broom stick was getting shorter.

From qrp-request@Think.COM Sat Nov 27 13:03:33 1993
Date: Sat, 27 Nov 93 13:03:20 -0500
From: al838@cleveland.Freenet.Edu (Eric J. Grabowski)
Subject: Re: CB Conversion to 6 Meters

>andrews@fms.com (Andrew Sargent N80FS) writes:

>Do you or have you converted any 40ch CB's to 6 meters?

No Andrew, I haven't tried converting a CB radio for use on 6 meters; however, I see no reason why it can't be done.

>I have a buddy (N8NV0) of mine who converted a 23ch Johnson AM/SSB to 6 meters, but it's bandwidth leaves much to be desired. i.e. it doesn't cover the AM portion (like the calling frequency of 50.400).

I'm not sure what you mean by bandwidth. Since it's a 23 channel radio you should be able to cover ANY 290 kHz portion of the 6 meter band. A 40 channel radio can cover 440 kHz.

Incidentally, some PLL chips in the older radios have an "unused" counter pin. By connecting this pin to Vcc or Vss through a pull-up or pull-down resistor, you can use a toggle switch to double the number of channels available. (No, I don't know specifically what chips those are or what radios they're in.)

If you mean that the bandwidth is restricted because the performance of the receiver, transmitter, or both falls off sharply near the band edges, then I would suspect that the Q of the tuned circuits in the receiver rf stage and/or transmitter driver and final stages is too high or the low-pass filter was not modified properly.

73, Eric

--

Eric Grabowski, WA8HEB
Chagrin Falls, Ohio

al838@cleveland.freenet.edu

From qrp-request@Think.COM Mon Nov 29 09:56:56 1993
Date: Mon, 29 Nov 1993 08:58:46 -0600 (CST)
From: "JEFF M. GOLD" <JMG@tntech.edu>
Subject: CMOS Super Keyer II

Hi again,

got my not working CMOS Super Keyer II out of the junk box Sunday to see if I could get it to work. This is the \$25 R&R kit version. I built the original Idiom Press 2 years ago and use it during contests and love it. Have no idea why I ordered this.. have about 7 keyers.

Well if Doug wants I will write this up, but here is the short version:

The kit was a bargain. The Idiom press came with a board and board components, you provide the case, the pushbuttons, the battery holders, the jacks. This kit came with the board, board components, 4 nice pushbuttons that have wires coming off them, a small speaker.

My impression is the Idiom Press PC board was better quality. Some of the ground trace fell off the R&R version.. no problem.. didn't even need that part of the trace. I found with my Idiom Press that I turned the monitor function off anyway, so only needed the speaker for programming the memories and changing parameters. The R&R speaker was fine for this. I put my original Idiom Press in a fairly large Radio Shack plastic box and used large push buttons. This time I bought a real small Radio Shack plastic box with the metal top.. I think it is about 4X2. This keyer is really small.. didn't have room for the 3 AA battery holder and such.. Stacked 2 of the holders and kinda shoved the whole thing in the box and didn't even fasten anything.. the assembly is so tight, I didn't need to.

I had carefully soldered all the components and wired up all the jacks and pushbuttons a while back and it didn't work. I knew I was careful and the bottom of the board looked real good. Had a bunch of stuff to do, so just put it away. Well I decided I should be able to fix the thing.. not many parts to it. I took out the Idiom Press version and measured all the chip voltages, and then did the same for the R&R version. I was somewhat surprised to find the voltages identical. This got me thinking-I took my multimeter and checked the output of the chip and found it was ditting and dahing. Traced down the problem. It seems that the enclosed parts layout shows the transistors in one way and the transistors that came with it are backwards from the version in the article (emitter and collector on opposite sides). The transistors were in fact marked (one for the speaker and one for the keying transistor). I pulled them out and had in fact blown them. I found one 2222 in my junk box and put it in for the speaker. I found that all the functions were in fact working.. but wouldn't key.. was going to go to RS to get a replacement for the keying transistor. Decided I didn't want to go to town so took out a 3904? and used it.. made 25 contacts with it in the contest using the ARK40 and my Gap Vertical. The only other peculiarity was Z1.. the one in the R&R looks like a small cap and doesn't have a ground leg.. so there is an extra hole in the board.

I really like the smaller size of this.. don't know what I am going to do with 2 contest keyers.. may have to put one in my HW9.

Well I can't tell any difference between the functionality of the 2 keyers.. They are both the best keyers (even taking out all the capabilities of the CMOS) the keyer just works great as a keyer (even

better than my 3 Curtis keyers). As a contest keyer, I still feel it can't be beat.. I like it better than the expensive AEA and have used both during contests.

72

Jeff, AC4HF

From qrp-request@Think.COM Mon Nov 29 11:24:54 1993
Date: Mon, 29 Nov 93 16:09:44 GMT
From: jkearman@arrl.org (Jim Kearman)
Subject: Converting a CB to 6 Meters

The frequency excursion from 11 meters to 6 meters is essentially one octave. Many of the devices used in the RF sections of a CB rig won't work too well by the time you get to 50 MHz.

72, Jim, KR1S

From qrp-request@Think.COM Mon Nov 22 14:46:19 1993
Date: Mon, 22 Nov 93 19:34:52 GMT
From: jkearman@arrl.org (Jim Kearman)
Subject: Re: CW Freqs

Off the subject of QRP, but a few years back I needed KL7 on 10 meters and made a sked for SSB, with CW for fallback. Heard nothing at appointed time, called him on CW off my vertical in Connecticut. A 9Q5 came back to me on CW!!! That's Zaire, not a real easy catch. You never know...

72/73, Jim

From qrp-request@Think.COM Mon Nov 22 16:39:24 1993
From: randy@cyphyn.radnet.com (Randy)
Subject: Re: CW Freqs,on phone bands
Date: Mon, 22 Nov 1993 16:39:12 -0500 (EST)

.....> on CW off my vertical in Connecticut. A 9Q5 came back
> to me on CW!!! That's Zaire, not a real easy catch.
> You never know...
>

A similar thing happened to me:

For a while, I used to hang out on 10mtrs to catch a friend who had moved to Texas.

This was done on 28390kc...normally SSB there.

One day, after trying both 'phone and cw, with no results, I got a faint cw call from .. I think ... it was Brazil.

By the way..I have not yet gotten scolded for running CW on a phone band... only a few dummy comments like ' duh! sombody is keying dere mike'

So as long as it QRM's no one, there's no reason to not run CW on a blank freq.

--

Randy KA1UNW	If you get a shock while	
	servicing your equipment,	"Works for me!"
randy@192.153.4.200	DON'T JUMP!	-Peter Keyes
	You might break an expensive tube!	

From qrp-request@Think.COM Sat Nov 20 14:31:08 1993

From: randy@cyphyn.radnet.com (Randy)

Subject: Re: doing CW in SSB/CW section

Date: Sat, 20 Nov 1993 14:30:34 -0500 (EST)

>

> Hi...I often call CQ on CW in the phone bands on 10m (and sometimes 15m) when
> the bands seem dead.

> As long as you don't stomp on someone's QSO, I don't see anything

> wrong with using that wide open SSB portion when the CW section gets crowded.

>

IF the freq is free of use of course,(I'm talking about 10 mtrs here), I did the same thing:

Use CW on the phone portion.

Usually tho, any calls I made on 10, were to get hold of a specific someone, and so if I got no response by voice, I'd try CW a while.

Sence that worked...I'd always get em using CW (then we'd switch to SSB or if air was clogged tight we'd skinny-up and stay on CW), it became a matter-of-course to start with CW, and optionally switch to SSB.

This was also good to use (CW) when the air is busy, and yer trying to get hold of someone who's waiting for you on XXX freq and there's one of those 10-4 things going on... so, by moving up 2-2.5kc, and run CW, you don't bother the 10-4 people, yet who's waiting for you, hears the hi-pitch CW way up there and can dial up to reply (then we go hunt for a new freq)

As far as the 10-4 people go, they think it is 'someone throwing carriers' and they ignor it.

--

Randy KA1UNW If you get a shock while
 servicing your equipment, "Works for me!"
randy@192.153.4.200 DON'T JUMP! -Peter Keyes
 You might break an expensive tube!

From qrp-request@Think.COM Sat Nov 20 09:39:31 1993
Date: Sat, 20 Nov 93 07:39:55 -0700
From: tjf@beta.lanl.gov (Tom J Farish)
Subject: Re: Dumb question...

Hi...I often call CQ on CW in the phone bands on 10m (and sometimes 15m) when the bands seem dead. If I'm QRO (90W or so), I'll mix SSB and CW calls just to save my voice / liven things up. A few weeks ago, I worked Suriname this way, an new one for me! Came right back to me on CW, then we tried SSB. As long as you don't stomp on someone's QSO, I don't see anything wrong with using that wide open SSB portion when the CW section gets crowded.

;^)

Tom
KJ5LT

From qrp-request@Think.COM Mon Nov 22 10:22:18 1993
Date: 22 Nov 1993 10:20:57 -0500 (EST)
From: "D A Coleman (ext. 2850)" <DACOLEMAN@fair1.fairfield.edu>
Subject: Re: Dumb question...

Om,

Your question isn't so dumb, and its answer is a little complicated.

First off, you need to bear in mind that there's always going to be a lot of buckshot (noise from splatter) between a.m. signals and even between ssb signals. Cw operators like to be comfortable, and they also like to have something left of their sense of hearing left when they're done operating; so they'd much rather operate in a segment of any given band where a minimum of noise can be expected. Until quite recently the bottom ends of the ham bands have been their last, best hope.

72.818353007

Don Coleman, W1VOQ

From qrp-request@Think.COM Mon Nov 22 12:18:48 1993
Date: Mon, 22 Nov 93 08:58:28 PST

From: mont@ibmmail.COM
Subject: Re: Dumb question...

From: adams@chuck.dallas.sgi.com (Chuck Adams):
> Mont, KM6WT, asks the question about operating CW in the higher
> parts of the band. Well, it's true, you legally can do so. But,
> you won't win friends or influence people. :-)
>
> It's part of the gentleman's agreement that CW ops would stay out
> of the phone allowed portions. This promotes good will and peace

But but but.... Are you saying that SSBers would rather I use SSB and
take up more bandwidth and leave even less room for other SSBers? I
guess the logic of this escapes me.

Maybe this is a gentleman's agreement if terribly outdated and needs to
be redefined. How do we go about doing that? If we show up in the SSB
portion of the band, they can't retaliate legally by coming down into
the CW sub-band.

I can understand about some portions left open for calling frequencies,
dx openings, nets, long established skeds. But there sure is a lot of
bandwidth used for general qso that could be made use of or used more
efficiently...

> on earth (well almost). You can even operate digital in the voice
> bands, but I don't think it'd would be too pretty.

Sorry, but RTTY & Data are not allowed in the HF phone bands. Only CW,
Phone and Image (which is normally sent in SSB mode).

> If you ventured in between AM stations, I doubt that you would
> have too many CW ops up that high listening.

If someone started doing it, someone would start listening. Word would
get around. I've tried setting up skeds with a friend from L.A. on cw,
sure is hard to find an opening sometimes. Then when I tune up and here
all the empty spaces that legally could be used, I just can't figure it
out.

>
> Mont, there is no no such thing as a dumb question. He who asks not
> learns not (Chuck Adams quote). I ask questions all the time. The
> only way I can learn. If you don't make mistakes, you're not doing
> anything.

Well I don't think I've learned anything yet because I still don't
understand WHY. So... either it must be a dumb question or maybe just

maybe it's time to relook at the bandplan and/or gentleman's agreements?
Guess I'll just have to wait and see....

Tnx for your comments & 73,
mont, km6wt

From qrp-request@Think.COM Mon Nov 22 11:57:44 1993
Date: Mon, 22 Nov 93 08:36:38 PST
From: mont@ibmmail.COM
Subject: Re: Dumb question...cw freqs

Randy writes:

> Well, to be polite, CW is kept mostly where CW-only (USA) is allowed.

Hummm... there are no places on the USA HF bands where only CW is allowed
(except for Novice & Tech+).

> Then too, there are DX windows that are universally world-wide accepted as
> being on some such n so freqs, generally at the bottom of each band.

OK.

> Then there are those of us who only have Novice or Tech+ tickets and so
> there is a freq limit there....

Sorry, wasn't refering to Novices or Techies+, my comment was only meant to
refer to General Class and higher. I know Novices and Techies don't have
any choice....

> The QRP calling freq's are on 3710kc and 7110kc, for 80 & 40 mtrs, altho,
> a QRPer will go where his ticket lets him go.....so same it seems, these
> SSBers and Honking Squawking what ever they are's (some are packet, amtor
> but,there are a few out there, that I think need an oil change).

>

> It's gotten so bad, I just don't get on between after-dusk, until past
> midnite.

> I get on before dusk, and well past midnite now.

>

Here's my point. I don't understand why it has to be this way, when other
parts of the spectrum where CW is ALLOWED is not used to its' fullest. Any
one in the US with General class or higher is allowed to use SSB or CW in
the upper end of the bands. If you can go on with SSB any time you like
why would anybody get upset if you used CW and use only use about 1/5th the
bandwidth?

Another reason I've been wondering about this is because I'd like to setup

a sked with a friend in L.A. to practice code. It would be nice if we could meet on SSB and then switch back and forth between modes during the qso. i.e. he could send a bunch of cw, I could say (speak) "did you say?", etc. Would this kind of qso draw some bad remarks from other hams?

73,
mont, km6wt

From qrp-request@Think.COM Mon Nov 22 15:02:43 1993
From: randy@cyphyn.radnet.com (Randy)
Subject: Re: Dumb question...SSB & CW mixtures
Date: Mon, 22 Nov 1993 15:02:10 -0500 (EST)

Ok..all this pertains to USA rules, for us IN USA...and 80 mtrs :

CW is FCC-permitted thru-out the band.

That lets us ID in case our mic burns out or the keys fall off the TTY machine.

However, to be nice, CW is not used with-in a busy phone band, but if it does not QRM a QSO, it is tolerated except by self appointed RF police.

CW then, usually stays in the zone that ONLY CW is suppose to be in.

THAT takes care of USA Hams IN USA.

HOWever....there are other countries (2 at least I can hear) who's band-plans are like our 160 mtrs...everything-goes, mode wise.

To be nice, these countries may run them selves as we do, so to not cause strife....sometmes.

I also have heard TTY , Amtor (or some kind of Wonk! Wonk! Wonk! noise) and LOTS of SSB , in the CW section....but it's from these other countries.

Most SSB people in a net, are in QSO to guys who give 20-over, and so they turn the RF gain way back to not hear air-noise...so their VOX & anti-VOX will work right.

(when set up right, anti vox prevents double keying the other guy)

As a result, any one on QRP is unheard, and gets squished.

[[[[[

Way out:

I found, a lot of all this QRM occurs during the Mad Hours of

Local dusk til local midnite + 1 hour (everyone is in bed)

So...get on BEFORE dusk (the air is almost ripe for use on 80 then)
or AFTER midnite...including up to well after dawn-mid morning.
The rest of the time, DUCK! (or go QRO to call up friends to chit chat)

For me...except for rare outbursts... I'm not on between dusk and midnite.
I'm HERE on the keyboard or messing with something off-air.

I hope that helps ...

--

Randy KA1UNW	If you get a shock while	
	servicing your equipment,	"Works for me!"
randy@192.153.4.200	DON'T JUMP!	-Peter Keyes
	You might break an expensive tube!	

From qrp-request@Think.COM Mon Nov 22 12:43:24 1993
Date: Mon, 22 Nov 93 11:49:22 CST
From: cieslak@cg9.eda.mke.ab.com (Brian Cieslak)
Subject: Re: Dumb Questions...cw freqs

Mont,

The way things on the ssb segments today you can't even talk about the weather without somebody sticking there two cents worth in so I think you should go for it...There may probably be 10 guys listening in the background practicing code along with your f

Peronally if I hear someone sending cw in the fone band I'll answer him in CW but generally I'll stay in the cw portiiions where I don't have to listen to the splatter that usually occurs just when the other guy has something important to say. I appreciate

You joined the ham radio ranks to pursue interests you enjoy so do it....Don't let someone else tell you what to do...unless its the FCC in which case all reason gets thrown out the window

73, Brian AE9K.

From qrp-request@Think.COM Sat Nov 27 19:30:09 1993
From: andrews@fms.com (Andrew Sargent N80FS)
Subject: elm Filter ideas???
Date: Sat, 27 Nov 1993 19:28:54 -0500 (EST)

Hello all,

Does anybody know how to make a filter for elm that will separate the

Boatanchors and QRP mailing lists into seperate folders, OR, put 'BA' (for Boatanchors) and 'QRP' (for QRP) appended to the subject headers?

--

Tell Me Something I Don't Know, ! HAM = N80FS
Show Me Something I Can Use, ! ARMY MARS = AAN5HJT
Push The Buttons, ! CB = THE NEON KNIGHT
Connect The God-Damn Dots!!! - Ministry ! HACKER = TH3 N30N KN16Ht

From qrp-request@Think.COM Sat Nov 27 22:52:16 1993
Date: Sat, 27 Nov 1993 22:51:57 -0500
From: Brad Mitchell <bmitchel@CBA.Kodak.COM>

Well, Some time ago my friend K2DB was operating sweepstakes, and he ran into NN1G on the air. Becuase of the popularity of the NN1G transceiver, Paul talked to Dave (NN1G) about getting the artwork for the original NN1G rig, so that we might make some of the 20 meter rigs. Well Dave was really helpful, and sent the entire NN1G Mark II package that I guess is going to appear in QRP quarterly in January.

Well, with this new artwork in hand, I set out to make the 20 meter version of the rig, using the Mark II artwork. First I made the two boards using the July, 1993 QST process for making p.c. boards. I'll be honest, the result wasn't the best, but definitely usable boards.

Parts aquisition was a little work, but amongst my own parts drawer, and a friends parts drawer, I had enough parts to commence construction.

For the crystal filter, I used 10 Mhz xtals, because they were available. To match them, I found that setting the 10 MHz source up on one xtal, and the measuring the response on a scope, I could match them easily. But you know, I really found that the particular xtals that I had , all of them were close enough!

Once I had the xtals, and the rest of the parts, I decided to start building the Receiver board. This is because the VFO circuitry is on the Rx, and I wanted to debug as I built the circuitry.

As I started stuffing the board, I found a minor artwork error, but I won't mention it, becuae I guess that the artwork is already being fixed. Anyway, I got around that problem, then fired up the receiver alone.

Two problems were encountered. One is that there was a sound comming from the receiver that sounded a lot like precipitation static. But I noticed the noise even though the antenna was not connected. Well this bothered me, because I new I had a real problem. Well during the parts scrounging process, I could not find 78l08's right off, and looked at the specs for the NE-602 for it's max voltage rating. Well this was listed as 8 volts MAX! So I finally found a 78l08, and measued it's output

as 8.18 volts. As a guess, I cranked down the 12 volt supply , and the noise went away. I got the meter out, and as the reg voltage dropped below 8 volts, the precip noise, now narrowed down to a breakdown noise, went away! So I replaced the 78108 with one that had 7.8 regulated volts out. This cured the problem, but it may be something to note, that you may want to be careful with this if you use an 8 volt regulator.

Problem Number 2. I found that as I increased the volume, that the LM386 oscillated at a high freq audio. This was cured by changing various caps, and I really don't know if this problem is something that I introduced, and then cured or not.

Now the receiver was working great. The selectivity is fantastic!
I can hear everything that my old Kenwood TS-520 can with the NN1G receiver!

Transmitter construction was next. This took only a very short time to complete, and there appeared to be no artwork errors. I got this put together with one exception the output transistor. I found that a good 2N3553 seems to work pretty good in place of the recommended transistor. I am getting more than a watt out, but haven't measured on the scope with a dummy load yet.

I next wired the two together , and was ready for putting it on the air. I listened, and everything was CQ test.... oh boy! I hate contests, especially all that computer generated garbage. Anyway, I'll have to wait till this "test of my will" is over for my first contact with the NN1G Mark II , but I predict that it will work 10x better on receive than the Spider.

In retrospect, I might try to get 10.x Mhz xtals, something other than the 10 Mhz, because there is a little feedthru of WWV. I predict that will go away when I put it in a metal box.
Also, I probably have \$20.00 into this whole project, and I bet I'll make one for other bands, and then some.

73 all, and happy homebrewing!!! Brad WB8YGG

From qrp-request@Think.COM Thu Dec 2 16:07:59 1993
Date: Thu, 2 Dec 93 16:12:35 EST
From: bapplega@isd.csc.com (Bob Applegate)
Subject: File formats

Some of us would prefer the TIF format files... are those available anywhere?

Bob

From parish@Think.COM Thu Dec 2 16:33:26 1993
From: Edward Parish <parish@Think.COM>
Date: Thu, 2 Dec 93 16:33:26 EST

Subject: File formats

Date: Thu, 2 Dec 93 16:12:35 EST
From: bappleaga@isd.csc.com (Bob Applegate)

Some of us would prefer the TIF format files... are those available anyplace?

Bob

I don't know of a utility to convert .eps files to tiff. If you can point me in the proper direction, I'll see what I can do here.

From qrp-request@Think.COM Fri Dec 3 10:39:57 1993
Date: Fri, 03 Dec 1993 09:41:56 -0600 (CST)
From: "JEFF M. GOLD" <JMG@tntech.edu>
Subject: for sale

OK,

my last attempt for a while:(trying to get money together for mobile HF setup)

New 20 meter A&A engineering QRP transceiver:

Portable, Single-signal superhet receiver with narrow CW crystal filter, VFO main and fine tuning, audio derived AGC and two stages fo audio filtering for listening comfort, 5 watts output power, semi-QSK TR switching with adjustable delay, sidetone generator with adjustable volume, perfect for backpacking, portable or home QTH use, built in speaker with plenty of audio, earphone jack. 6 X 7.25 X 3. Assembled, tested, works great off power supply or gell cell.

\$110 shipped continental US

72

Jeff, AC4HF

Also still have Tejas keyer and audio filter.

From qrp-request@Think.COM Wed Dec 1 16:37:23 1993
Date: Wed, 1 Dec 93 14:37:12 MST
From: Doug Datwyler <datwyler@moons.sim.es.com>
Subject: frequency counters

Anyone know of a good chip, besides the Intersil (now Harris), for frequency counters. I find the chip listed at Digikey, JDR, an Mouser. Anyone have a preference for service/value. I don't find the chip listed in the Harris product selector. Is it obsolete? And, yes, I will be using it as part of a QRP project or to test radio equipment (so no one blows a gasket if slightly off subject).

Doug Datwyler WR70
datwyler@moons.sim.es.com

From qrp-request@Think.COM Thu Dec 2 09:15:17 1993
Date: Thu, 2 Dec 93 08:15:04 -0600
From: adams@chuck.dallas.sgi.com (Chuck Adams)
Subject: ftp

Andrew Sargent, N80FS, asks the question, "What _is_ ftp???". Hmmmm. Must be from the MS-DOS world. :-) "ftp" stands for file transfer protocol. There is a system on the internet whereby one can use a command, ftp, to get to another computer system on the internet. You can then login in as 'anonymous' and give your email address as the password. Then you can transfer files from that system to yours.

WARNING: these transactions are monitored and there are legal and moral issues that you should follow.

I see that Andrew doesn't mind who he offends as I find his signature offensive. Just a personal note. I believe in freedom of speech, but there are some things that others do find offensive.

back to your regularly scheduled programming.

SIG
-----cut here-----
Chuck Adams, K5FO - CP60
adams@sgi.com
QRP ARCI Awards Chairman

From qrp-request@Think.COM Thu Dec 2 09:47:25 1993
Date: Thu, 2 Dec 93 08:45:53 CST
From: msdoolley@rockdal.aud.alcatel.com (Michael S. Doolley)

Subject: ftp

>Chuck Adams writes:<
>WARNING: these transactions are monitored and there are legal and
>moral issues that you should follow.
>
>I see that Andrew doesn't mind who he offends as I find his signature
>offensive. Just a personal note. I believe in freedom of speech, but
>there are some things that others do find offensive.

I agree... not to cause a flame war or anger Andrew, but I find the
sig line offensive, too.

Mike Dooley KE4PC
msdooley@rockdal.aud.alcatel.com

From qrp-request@Think.COM Thu Dec 2 23:49:17 1993
From: andrews@fms.com (Andrew Sargent N80FS)
Subject: Re: ftp
Date: Thu, 2 Dec 1993 23:47:23 -0500 (EST)

> From ncoast!usenet.INS.CWRU.Edu!Think.COM!qrp-request Thu Dec 2 18:03:01 1993
> Return-Path: <ncoast!usenet.INS.CWRU.Edu!Think.COM!qrp-request>
> Received: from ncoast by fms.com with uucp (Smail3.1.28.1 #1)
> id m0p5N35-0000xSC; Thu, 2 Dec 93 18:02 EST
> Received: from usenet.INS.CWRU.Edu by ncoast.org with uucp (Smail3.1.28.1 #1)
> id m0p5H9i-0000jpc; Thu, 2 Dec 93 11:45 EST
> Received: from Mail.Think.COM by usenet.INS.CWRU.Edu with SMTP (5.65b+ida+/
CWRU-1.5.3-UUCPGW)
> id AA08587; Thu, 2 Dec 93 11:06:19 -0500 (from qrp-request@Think.COM for
fmsystem.ncoast.org!andrews)
> Received: by mail.think.com; Thu, 2 Dec 93 09:47:30 -0500
> Received: from Think.COM by mail.think.com; Thu, 2 Dec 93 09:47:25 -0500
> Received: from aud.alcatel.com (rockdal.aud.alcatel.com) by Early-
Bird.Think.COM; Thu, 2 Dec 93 09:47:20 EST
> Received: from waynesworld.aud.alcatel.com by aud.alcatel.com (4.1/SMI-4.1)
> id AA27262; Thu, 2 Dec 93 08:45:53 CST
> Date: Thu, 2 Dec 93 08:45:53 CST
> From: ncoast!usenet.INS.CWRU.Edu!rockdal.aud.alcatel.com!msdooley (Michael S.
Dooley)
> Message-Id: <9312021445.AA27262@aud.alcatel.com>
> To: Think.COM!qrp
> Subject: ftp
> Content-Type: text
>
> >Chuck Adams writes:<
> >WARNING: these transactions are monitored and there are legal and

> >moral issues that you should follow.
> >
> >I see that Andrew doesn't mind who he offends as I find his signature
> >offensive. Just a personal note. I believe in freedom of speech, but
> >there are some things that others do find offensive.
>
> I agree... not to cause a flame war or anger Andrew, but I find the
> sig line offensive, too.
>
> Mike Dooley KE4PC
> msdooley@rockdal.aud.alcatel.com
>
You can't anger or offend me, for I _am_ a No-Code which has been put-
down, trampled, and ignored in the name of the hobby.

I suppose it is, however, time to change my sig (Where did I put my
Frontline Assembly CD???)

```
--
Tell Me Something I Don't Know,      ! HAM      =      N80FS
Show Me Something I Can Use,          ! ARMY MARS = AAN5HJT
Push The Buttons,                     ! CB =      THE NEON KNIGHT
Connect The God-Damn Dots!!! - Ministry ! HACKER = TH3 N30N KN16Ht
```

From qrp-request@Think.COM Wed Dec 1 06:45:59 1993
Date: 1 Dec 1993 06:41:32 -0800
From: "Bob Scott" <Bob_Scott@cpqm.saic.com>
Subject: FWD>BSA Receiver

Mail*Link(r) SMTP FWD>BSA Receiver
Thanks to Randy for the work. Thought the group might be interested in this.
Do not know who owns the design.

Date: 11/30/93 14:12
From: Randy

```
BSA Receiver      some math required to set band

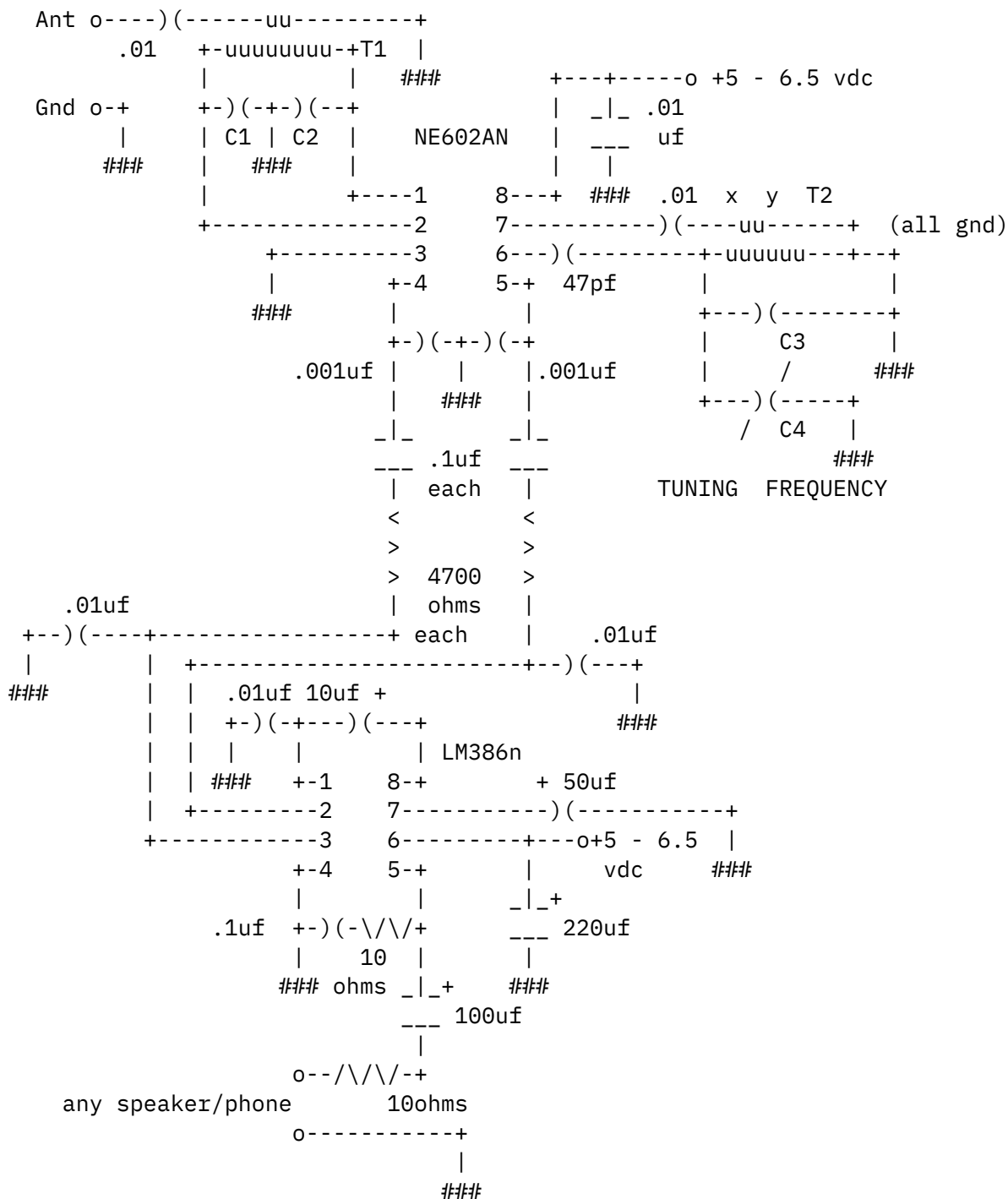
Note..      |      is gnd foil/ wire on board/chassie
            ###

            +--- is wire/foil connected
            |

            o--- is terminal of your choice

uuuu      is a coil
```

IC pin No. are TOP view....notch is between pin 1 and 8 , dot is by pin 1



Caps: $C1 = C2 = (25330 / (F * F * 12.5)) * 2$

F= middle of band, mhz

ok to round off to nearest std value

$C3 = 25330 / (F * F * 12.5)$ answer will be uuf (pf)

C4 = small tune cap...10-15uuf at full mesh *

Example 6 mhz band C1 C2 = 100 or 120 pf
 C3 = 56pf disc ceramic , NPO for C3

T1 and T2 = Digikey TK2431 12.5 uh used as shown (top view)

Caps... 25v or more--- .001, .01 = disc ceramic, .1uf ok if 'any'
Resistors 1/8 watt or more

* Fair Radio Sales Antique Electronic Supply (I have no RECENT catalog)

Ok to omit tuning and use a 30pf or less, TRIM cap (digikey) and user
has a screw-driver to tune with
I used a homemade one with brass screw and copper pipe (nitemare)

Power supply: 5 6.5 vdc ONLY! (NE 602 can only take that!)

Use 4 alkyline or 4 or 5 Nicads (5 - 6.25vdc result) or 3 gel-cells
(Gel cells: 6.0v = discharged 6.6v = charged)
Each gel cell is 2.0-2.2vdc, so 3 cells = 6v... some come already as 3 cells.

For young starters, I recommend alkyline AA cells

Ckt board...I have no stencils...I did mine free hand, and it came out
rather large (easy to get at parts...my aim)
IC's plugged into 8 pin dip sockets... but any brave someone could try
solder direct!

Tune up:

Preset C3 to middle of rotation, and using a tooth-pick (NEVER use metal)
adjust T2 to hear any kind of signal/whistle.

NOTE...if all adj gives no result, reverse connections x y above
to get oscillator in phase... some coils are reversed, x y wise

Now adj T1 to improve the loudness...while keeping on freq with C3

If you find you are not near desired stations, then re-do T2 a bit at a time
until you find station-group wanted.

This rig has no vol control (objective is to not cost a lot), so some

stations may bomb in...that'll impress the listener!

--

Randy KA1UNW	If you get a shock while	
	servicing your equipment,	"Works for me!"
randy@192.153.4.200	DON'T JUMP!	-Peter Keyes
	You might break an expensive tube!	

----- RFC822 Header Follows -----

Received: by cpqm.saic.com with SMTP;30 Nov 1993 14:12:41 -0800
Received: by cyphyn.radnet.com (Smail3.1.28.1 #5)
id m0p4d8y-0001hNC; Tue, 30 Nov 93 17:02 EST
Message-Id: <m0p4d8y-0001hNC@cyphyn.radnet.com>
From: randy@cyphyn.radnet.com (Randy)
Subject: Re: Inexpensive Radio BSA
To: bob_scott.csm#u#mail@cpqm.saic.com (Bob Scott)
Date: Tue, 30 Nov 1993 17:01:59 -0500 (EST)
In-Reply-To: <m0p4brZ-0001hGC@cyphyn.radnet.com> from "Bob Scott" at Nov 30, 93
03:36:42 pm
X-Mailer: ELM [version 2.4 PL21]
Content-Type: text
Content-Length: 5428

From qrp-request@Think.COM Wed Dec 1 18:00:28 1993
From: randy@cyphyn.radnet.com (Randy)
Subject: Re: FWD>BSA Receiver
Date: Wed, 1 Dec 1993 17:55:33 -0500 (EST)

Design is based heavily on QST's article about the W1AW rx using a crystal
of 3580kc and some op-amp chip...

I could not get the op amp, so I used 386, run wide open and used T2 in
place of the xtal, so to let me get VFO-ability...

I >think< Ramsey uses a very similar design for their Rx set...but
they had 3 coils.....(extra one in front of my T1)

I don't claim ownership....only that 'this is what I built, and survived
doing it' .

--

Randy KA1UNW	If you get a shock while	
	servicing your equipment,	"Works for me!"
randy@192.153.4.200	DON'T JUMP!	-Peter Keyes

You might break an expensive tube!

From qrp-request@Think.COM Thu Dec 2 13:33:46 1993
Date: Thu, 02 Dec 93 18:11:47 GMT
From: jkearman@arrl.org (Jim Kearman)
Subject: G4BUE During Wintersports

>From mvjfmvubbr.att.com Thu Dec 02 13:56:09 1993
Received: from mgate.arrl.org by jek with SMTP
id AA23152 ; Thu, 02 Dec 93 13:56:08 GMT
>From POP3@uu2.psi.com. Thu Dec 02 08:46:40 1993
Received: from gw1.att.com by uu2.psi.com (5.65b/4.0.071791-PSI/PSINet) via SMTP;
id AA03002 for poparrl; Thu, 2 Dec 93 08:08:58 -0500
Message-Id: <9312021308.AA03002@uu2.psi.com>
From: mvjfmvubbr.att.com
Date: Thu, 2 Dec 93 07:57 EST
Original-From: mvubbr!mvjfm (James M Fitton +1 508 960 2577)
To: jkearman@arrl.org
Subject: GB0QRP

Jim - Will you post this in internet ?

I talked with G4BUE last night on my new 2 watt NorCal-40 HB rig,
and he said to tell everyone to look for him this winter during
EU. QRP Wintersports.
He will use special event callsign GB0QRP again.

See how many bands you can work him.

In past years, W3TS and AA2U worked Chris on 8 bands (80m - 10m)
I have only worked him on 7 bands because my 1 antenna does not
play that well on 80m.

Chris writes the "Members News" column for Sprat, the journal for
the G-QRP club. He will be joining the gang at Dayton again in
94. Chris said he has retired from the police force, and started
a printing business out of his home.

FYI

If anyone wants a room with the QRP gang at Dayton, better speak
up now. Last year QRPers had over 50 rooms rented at the hotel.
Contact Myron Koyle, N8DHT..... New Treasurer for ARCI.

From qrp-request@Think.COM Fri Dec 3 10:56:11 1993
Date: Fri, 3 Dec 1993 09:55:23 -0600
From: wrfin@prairienet.org (william r finch)
Subject: Has anyone tried this?

To the group:

I'm thinking about setting up a QRP station in the following manner, and would appreciate any comments. I want to use my Radio Shack DX-390 (aka Sangean ATS-818) as the receiver (although selectivity can be a problem, I realize), and home-brew a QRP transmitter and the T/R switching, probably on 20 meters. Has anyone had experience with this type of setup? Thanks for any comments.

Aside, to N80FS, the comments re:"No Code" seem somewhat defensive. My first ticket was Technician class, but when I saw what else was out there in ham radio, I learned the code and upgraded. I'm a VE now, and I enjoy it a lot. Ham radio licensing is one area where the government has put authority back into the hands of the people. Granted, it's not brain surgery, but a good hobby.

If you don't feel limited in what you want to accomplish in ham radio by your ticket class, then stay where you are. Two of my children hold Technician tickets, and don't feel limited (although they both look forward to working HF on Field Day!).

73s de KF9KI

##*# **##* ##### *##* **

From qrp-request@Think.COM Fri Dec 3 11:39:50 1993
From: Tom_Jennings <jennings@eng115.rochny.uspra.abb.com>
Subject: Re: Has anyone tried this?
Date: Fri, 3 Dec 93 11:39:38 EST

KF9KA writes:

I'm thinking about setting up a QRP station in the following manner, and would appreciate any comments. I want to use my Radio Shack DX-390 (aka Sangean ATS-818) as the receiver (although selectivity can be a problem, I realize), and home-brew a QRP transmitter and the T/R switching, probably on 20 meters. Has anyone had experience

with this type of setup? Thanks for any comments.

Bill, back in the days before transceivers were popular, the above was a must. I had an ht37 and sb300 set up in a similar fashion. My t/r switch was a coax relay with a set of contacts for muting the receiver.

Have fun!

73

TJ kv2x

--

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Thomas J. Jennings      | Tel: (716) 273 7071
Development Engineer    | Fax: (716) 273 7262
                          |
ABB Process Automation  |
Post Office Box 22685   |
Rochester, New York 14692-2685 |
                          |
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Internet: jennings@jennings.rochny.uspra.abb.com

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From qrp-request@Think.COM  Tue Nov 23 15:25:45 1993
Date: Tue, 23 Nov 93 13:25:36 MST
From: Doug Datwyler <datwyler@moons.sim.es.com>
Subject: homebrew
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Talking about coils forms. The first radio I remember building was a 1n34 based receiver, with a piece of gift wrap tube as a coils form. Another form I have seen is Wilford Brimley's favorite food container, the oat meal box. As for a place to put the project, a large Tang can, with it foil lining, I think to be a possibility (I have not tried this yet). Just rambling on a TueFri, as I take a longer Thanksgiving weekend... Doug Datwyler WR70 datwyler@moons.sim.es.com

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From qrp-request@Think.COM  Tue Nov 23 14:23:35 1993
Date: Tue, 23 Nov 93 9:23:28 HST
From: Jeff Herman <jherman@uhunix.uhcc.Hawaii.Edu>
Subject: Homebrewed QRP
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```

Gang,

In the past couple of weeks I've seen a very welcomed transition in the topics discussed on the net. It's my true belief that QRP and homebrewing go hand in hand. For months so many folks have been discussing their kit rigs - I just can't seem to get excited about kits. As of late though, more posts concerning building from scratch have been appearing - I love it! Let's have more of this kind of discussion.

I've just yanked the most beautiful variable capacitor out of an old TV - can't wait to build something around it! And I've almost got a cardboard tube coil form available - couple more days...

Jeff NH6IL (ex: WA6QIJ)

From qrp-request@Think.COM Tue Nov 23 16:25:27 1993

Date: Tue, 23 Nov 93 16:18:41 EST

From: klaudon@PICA.ARMY.MIL

Subject: Re: Homebrewed QRP

>Gang,

> In the past couple of weeks I've seen a very welcomed transition in the
> topics discussed on the net. It's my true belief that QRP and homebrewing
> go hand in hand. For months so many folks have been discussing their kit
> rigs - I just can't seem to get excited about kits. As of late though,
> more posts concerning building from scratch have been appearing - I love it!
> Let's have more of this kind of discussion.

> I've just yanked the most beautiful variable capacitor out of an old TV -
> can't wait to build something around it! And I've almost got a cardboard
> tube coil form available - couple more days...

>

>Jeff NH6IL (ex: WA6QIJ)

>

On the issue of kit building OR homebrewing - does anyone have any suggestions as to cw audio filter projects? What specific circuits are the most versatile, and where do I find the kit or plans? I have heard that the SCAF filter is a great one. Anyone have any plans?

I myself don't have much experience at all in either kit or homebrew, so I don't mind either kind of discussion. I do prefer the idea of homebrewing from the standpoint of keeping costs to an absolute minimum (an absolute necessity!); however, I have no interests AT ALL in dealing with artwork, or etching, my own PC board! Perhaps I should just jump in and get my feet wet with this already-ancient technique, but I just hate working with chemicals!

And as far as your coil forms go, Jeff, just wait until Thursday evening, and you should have all the coil forms you can use (especially if the family

or friends come over to ur house for turkey day)!!

Kalman Laudon WD6CZI in 2 land, a Chemical Engineer who no longer works in
<klaudon@pica.army.mil> his original field (who does?). Not only
----- that, but one of the other fields I worked
in was IC and hybrid photolith/masking/etch
of metallic interconnect layers! You either
end up loving this stuff or hating it! 72.

From qrp-request@Think.COM Fri Dec 3 08:20:00 1993
From: bob.berlyn@chowda.sbs.com (Bob Berlyn)
Subject: Inexpensive Homebrew QRP
Date: Fri, 3 Dec 1993 11:50:00 GMT

DQ>From: dquagliana@attmail.com (os2user@vmdoug.utsd.att.com)
DQ>Subject: Inexpensive Homebrew QRP Wattmeters
DQ>Date: 1 Dec 93 19:47:06 GMT
DQ>To: bob.berlyn@chowda.sbs.com
DQ>Message-Id: <9312011948.AA1659@vmdoug.utsd.att.com>

DQ>I'm looking to build a simple QRP wattmeter.

DQ>I'd like to hear comments from the group on any homebrew wattmeters that you
DQ>use. It should be simple, easy to build, and shouldn't require any fancy
DQ>equipment to get it calibrated. (Cheap is also a good characteristic :-)))

DQ>Ideas? I'm listening.
DQ>Douglas Quagliana KA2UPW

Doug,
I built the SIMPLE AND ACCURATE DIRECTIONAL WATTMETER from the 1993
Handbook. I found the project to be not very expensive, It is however
accurate and its a directional wattmeter. You really have to etch a PCB
for the project, but if your really aganst that I.m sure you could get
around it.

The circuit is small enough to be included into a transmitter project,
thats what I want to do eventually.I found the Wattmeter easy to build,
and I am new at Home brewing. The only problem I hade was winding the T2
and T3 toriods? with the proper phasing, but ater I figured that out it
worked great, and still does.

Bob Berlyn N1PWU

Bob.Berlyn@chowda.sbs.com

* SLMR 2.1a * --T-A+G-L-I+N-E---M-E-A+S-U-R+I-N-G+---G-A+U-G-E--

From qrp-request@Think.COM Wed Dec 1 15:08:57 1993
From: dquagliana@attmail.com (os2user@vmdoug.utsd.att.com)
Date: 1 Dec 93 19:47:06 GMT
Subject: Inexpensive Homebrew QRP Wattmeters

[Note: This is my second attempt at sending this. Apologies for duplicates.]

I'm looking to build a simple QRP wattmeter.

I don't need something that is accurate to three decimal places; just a small box that would indicate if the RF output power was above some threshold. I was originally thinking of getting some of those precision light bulbs from Radio Shack and using them in a box with a couple of switches. The procedure would go something like: key down, switch to bulb #1, if bulb #1 lights up, your output is at least 0.25 watts, switch to bulb #2, if bulb #2 lights up then you have at least .5 watts, etc. When a bulb doesn't light up, you would know you are below that threshold, and above the previous threshold.

Like I said, I don't need a high degree of accuracy, just a rough idea of the output power. I'd like to have certain threshold that I can determine if the output is at or above. I'm thinking about .25w/.5w/1w/3w/5w, but I actual values would depend upon the bulbs themselves. I'm not too certain that this whole bulb idea will work either. (I don't think the bulbs will look like 50 ohms to the transmitter, but does that matter for the accuracy of this project?)

I'd like to hear comments from the group on any homebrew wattmeters that you use. It should be simple, easy to build, and shouldn't require any fancy equipment to get it calibrated. (Cheap is also a good characteristic :-)))

Ideas? I'm listening.

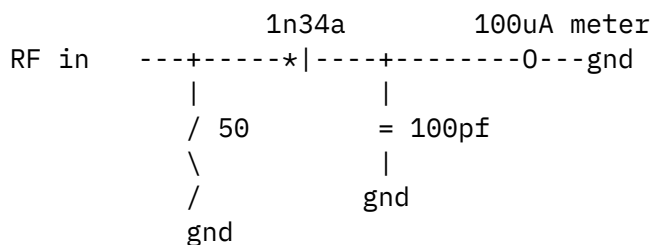
Douglas Quagliana KA2UPW
dquagliana@attmail.com

From qrp-request@Think.COM Fri Dec 3 14:22:59 1993
Subject: Re: Inexpensive Homebrew QRP Wattmeters
Date: Fri, 3 Dec 93 11:16:56 PST
From: bobh@hpesoc1.cup.hp.com (Bob Headrick)

> I'm looking to build a simple QRP wattmeter.
> I don't need something that is accurate to three decimal places; just a small

> box that would indicate if the RF output power was above some threshold. I
 > was originally thinking of getting some of those precision light bulbs from
 > Radio Shack and using them in a box with a couple of switches. The
 > procedure would go something like: key down, switch to bulb #1, if bulb #1
 > lights up, your output is at least 0.25 watts, switch to bulb #2, if bulb #2
 > lights up then you have at least .5 watts, etc. When a bulb doesn't light up,
 > you would know you are below that threshold, and above the previous thresholdii

Back on the old days of tube rigs a 100W light bulb made a good dummy load/tuning indicator. Unfortunately solid state rigs are not as tolerant. A cold filament will look like nearly a dead short to the transmitter; it is a race between destroying the final output stage and heating the bulb. There are some easy circuits in the handbook for QRP wattmeters; the principle is something like the following:i



A pot across the meter may be required for calibration. If you need really low power measurements an op amp is needed to boost the signal a bit.

Bob Headrick WA70VU
 bobh@cup.hp.com

From qrp-request@Think.COM Mon Nov 29 13:34:05 1993
 Date: 29 Nov 1993 13:32:28 -0800
 From: "Bob Scott" <Bob_Scott@cpqm.saic.com>
 Subject: Inexpensive Radio Project f

Inexpensive Radio Project for Scouts

To all the fine folks on this list...

Maybe you can help me out with something. I work with the Boy Scouts and am a Radio Merit Badge Counselor. I am looking for an inexpensive project (under \$20, prefer under \$15) that the Scouts can build to fulfill the requirement that they build something. I would prefer to find some kind of receiver since it would be more useful than a code practice oscillator and could possibly spur them on to getting into ham radio. Anyway, if anyone has any suggestions, I would be very interested.

73
Bob
AC4QO

From qrp-request@Think.COM Mon Nov 29 14:26:57 1993
Subject: Re: Inexpensive Radio Project f
Date: Mon, 29 Nov 93 14:27:15 EST
From: "John F. Woods" <jfw@ksr.com>

> Inexpensive Radio Project for Scouts
> To all the fine folks on this list...
> Maybe you can help me out with something. I work with the Boy Scouts
> and am a Radio Merit Badge Counselor. I am looking for an
> inexpensive project (under \$20, prefer under \$15) that the Scouts
> can build to fulfill the requirement that they build something. I would prefer
> to find some kind of receiver since it would be more
> useful than a code practice oscillator and could possibly spur them
> on to getting into ham radio. Anyway, if anyone has any suggestions, I
> would be very interested.

A shortwave receiver for 41 meters might fit the bill; if you bought NE602s and LM386s in bulk, there's no shortage of real simple designs for simple (cheap) direct-conversion rigs (not ideal for shortwave listening, but tolerable). And, of course, it works for the 40 meter amateur band at the same time ;-).

John, WB7EEL

From qrp-request@Think.COM Tue Nov 30 01:11:07 1993
Date: Mon, 29 Nov 1993 23:56:15 +2409000 (??)
From: Douglas J Renze <drenze@grind.isca.uiowa.edu>
Subject: Re: Inexpensive Radio Project f

Yes. In a QST in the last year or so, there was a simple crystal-controlled receiver schematic for tuning into W1AW. With a few added components it converted into a QRP transceiver. Now, I believe that the ARRL sells the kits for \$24.95 or so each, but I believe they're cheaper in quantity, not to mention the fact that the complete schematic was published and you might be able to scratch-build them cheaper still (ie, etch your own boards, etc).

73, Doug

```
__  /|  | Doug Renze, N0YVW      |  
'o.O'  | +1 319 337 4664      | If you can read this you're too close.  
=(___)= | drenze@icaen.uiowa.edu |
```

U | Douglas-Renze@uiowa.edu |

On 29 Nov 1993, Bob Scott wrote:

> Inexpensive Radio Project for Scouts
> To all the fine folks on this list...
>
> Maybe you can help me out with something. I work with the Boy Scouts
> and am a Radio Merit Badge Counselor. I am looking for an
> inexpensive project (under \$20, prefer under \$15) that the Scouts
> can build to fulfill the requirement that they build something. I would prefer
> to find some kind of receiver since it would be more
> useful than a code practice oscillator and could possibly spur them
> on to getting into ham radio. Anyway, if anyone has any suggestions, I
> would be very interested.
>
> 73
> Bob
> AC4QO
>
>

From qrp-request@Think.COM Tue Nov 30 10:26:10 1993
Date: Tue, 30 Nov 93 07:26:02 PST
From: sjhawk2@srv.PacBell.COM (Stephen Hawkins)
Subject: interests

Name: Steve Hawkins
Call: WV6U
Email: sjhawk2@srv.pacbell.com
Qrp Rigs: HW-8, 950s w/pwr turned down; ant is 5-BTV Vert.
QRP Favorites: solar power, portable use (camping),
Comments: Started out QRP, keep going back to it.

From qrp-request@Think.COM Mon Nov 22 18:23:35 1993
From: "Dalliston, Peter" <PDallist@VTRLME11.TRL.OZ.AU>
Subject: Just a test
Date: Tue, 23 Nov 93 09:47:00 EST

Please ignore

From qrp-request@Think.COM Fri Dec 3 10:43:08 1993
Date: Fri, 3 Dec 1993 10:42:53 -0500

From: Scott Cranston <cranston@zk3.dec.com>
Subject: K1BQT kits from Radio Kit

Got a flyer/catalog from 'RadioKit' They have the Rick Littlefield, K1BQT, (of MFJ QRP transceiver fame) kits for 40, 30, 20, 17 and 15 meters... says the 40/30/17 meter flavors are new additions:

- 5 watts output
- full range VFO (what ever that means?), 8:1 reduction drive
- superhet receiver with crystal filter
- AGC
- RIT
- built in sidetone
- Audio filter, front panel selectable
- adjustable breakin delay
- runs on 12 - 15 volts
- 4" X 4" X 2", weight is 15 ounces
- punched, painted, silk screened TEN-TEC cabinet

Price: \$99 (includes shipping) until [at least] December 31, 1993.

RadioKit
P.O. Box 973
Pelham, New Hampshire 03076

603-635-2235

Does anyone have a recent vintage of these kits or any other experiences with them?

Scott
KB1NW

From qrp-request@Think.COM Fri Dec 3 15:49:32 1993
Date: Fri, 3 Dec 93 14:19:58 EST
From: epacyna@auratek.com (Edward Pacyna)
Subject: Re: K1BQT kits from Radio Kit

I've built 4 or 5 of them (20M and 15M versions). This kit has been around since 1990. See CQ magazine, Sept 1990 for construction article. FAR sells PCB for \$12 (same as in kit) if you want to homebrew one. Also the MFJ 90xx

transceiver is based on this design, but with some changes and bigger PCB.

With a few modifications, it makes a decent transceiver.

73

Ed W1AAZ

From qrp-request@Think.COM Tue Nov 30 16:36:56 1993
Date: Tue, 30 Nov 93 16:37:09 EST
From: doug.snowden@ccd.harris.com (Doug Snowden)
Subject: K9AY Receiver

I dont have the article in front of me and don't know where it is. My question is: Did the receiver that he designed and appeared in QST have a NE602 IC in it? How well did that receiver actually work?

Doug N4IJ

From qrp-request@Think.COM Wed Dec 1 10:01:19 1993
From: alsun150!jvm@aluxs.att.com
Date: Wed, 1 Dec 93 09:56:29 EST
Subject: Re: K9AY Receiver

> From att!Think.COM!qrp-request Tue Nov 30 16:57:59 1993
> Date: Tue, 30 Nov 93 16:37:09 EST
> From: doug.snowden@ccd.harris.com
> To: qrp@Think.COM
> Subject: K9AY Receiver
> Content-Length: 214
>
> I dont have the article in front of me and don't know where it is. My question
> is: Did the receiver that he designed and appeared in QST have a NE602 IC
> in it? How well did that receiver actually work?
>
> Doug N4IJ
>

Hi Doug,

Gary Breed K9AY had two receiver articles in recent issues of QST.

"A New Breed of Receiver" (Jan '88 pages 16-23) describes an SSB phasing receiver. It uses Mini-circuits SBL-1 mixers and some high-frequency/low-noise op-amps (I think) eg NE5534, NE5205, TL081. Favorable comments & suggested mods by Bob Zavrel appeared in

September '88 QST (probably the Tech. Correspondence column).
No NE602s.

"A Portable QRP CW Transceiver" (part 1-Receiver: Dec. '90, pp. 44-47; part 2- Transmitter: Jan. '91, pp. 17-23) used MC3362/LM324/MC3340/LM386 in the receiver, and NE602/LM6321 + discrete transistors in the transmitter.

Hope this helps !

73,

Jim Morgan WX4D/3 jvm@aluxpo.att.com
AT&T - Allentown, PA

From qrp-request@Think.COM Mon Nov 22 10:40:16 1993
Date: Mon, 22 Nov 93 09:14:57 EST
From: epacyna@auratek.com (Edward Pacyna)
Subject: MAVTI Receiver For Sale

Built and tested receiver PCB from "Better Ears for the MAVTI-40" see QST article in October 1985 pg.14, or QRP Classics pg.140.

The receiver is built on a double sided, gold plated PCB about 5"W x 3 1/2"W. It contains all the circuits of Fig. 6. The audio band pass has been optimized for a 600Hz center frequency. Although a 40M double tuned band pass filter is installed, this can easily be changed for the receiver to operate on any band. The PCB also includes T/R keying and antenna change over. Just add a VFO for a fully functional receiver. I recommend the NG1G premixed VFO (see QRP Quarterly) since the VFO buffer to drive the SBL-1 is on the PCB and this would allow you to build for any band. Add a transmitter and sidetone and you can build a complete transceiver around this module. One notable feature of this receiver circuit is the notch filter which works quite well. Price does not include the few components that are chassis mounted (e.g. jacks, pots etc.). Full documentation included. Price \$45.00

Ed Pacyna W1AAZ email: ed@auratek.com telephone: (617) 290-4800 X114

From qrp-request@Think.COM Fri Dec 3 15:53:37 1993
Date: Fri, 03 Dec 1993 14:55:31 -0600 (CST)
From: "JEFF M. GOLD" <JMG@tntech.edu>
Subject: Meters

Hi,

need some help.. are any of you expert at LCR or just LC meters..
noticed that there are times when a device of this type would be very
useful.. I need one capable of measuring accurately for HF component
work (usually for QRP transceivers to check cap values and hand wound
coil values).. would really appreciate specific suggestions or if anyone
has one for sale, let me know

72

Jeff, AC4HF

From qrp-request@Think.COM Fri Dec 3 21:41:43 1993
Date: Fri, 03 Dec 93 18:41 PST
From: Michael Stein <OSYSMAS@MVS.OAC.UCLA.EDU>
Subject: Re: Meters (L and C)

> need some help.. are any of you expert at LCR or just LC
> meters.. noticed that there are times when a device of this
> type would be very useful.. I need one capable of measuring
> accurately for HF component work (usually for QRP transceivers
> to check cap values and hand wound coil values).. would really
> appreciate specific suggestions or if anyone has one for sale,
> let me know

Do you have a frequency counter? If you do (or perhaps a receiver
might work?) build a simple oscillator with switchable (clip
leads?) for where the LC goes...

I have something like this (from an article in QST within the
past decade). It can be calibrated by measuring an unknown LC
(both unknown) by itself and with an additional known C (call it
Cdelta). Since $L \cdot C = 1/(2\pi \cdot f)^2$ once you measure the
two frequencies (F1 and F2) you can calculate the two
LC products for each frequency (LC(1) and LC(2)).

$$Lx \cdot Cx = LC(1)$$

$$Lx(Cx + Cdelta) = LC(2)$$

$$Lx \cdot Cx + Lx \cdot Cdelta = LC(2)$$

But $Lx \cdot Cx$ is just $LC(1)$ so

$$LC(1) + Lx \cdot Cdelta = LC(2)$$

and

$$Lx \cdot Cdelta = LC(2) - LC(1)$$

resulting in

$$Lx = (LC(2) - LC(1)) / Cdelta$$

Now that you know Lx you can calculate Cx

PS: Keep in mind that Cx includes stray capacitance of the
inductor too...

From qrp-request@Think.COM Mon Nov 22 13:55:02 1993
Date: 22 Nov 1993 13:53:20 -0500 (EST)
From: "D A Coleman (ext. 2850)" <DACOLEMAN@fair1.fairfield.edu>
Subject: More on wooden radios

I can hardly believe that, in my early message on this subject, I forgot to mention the wooden radio that got me into ham radio more than forty years ago. It was a 6 SN 7 regen receiver built on a wooden base. the connections on the board itself were made with fanstag (or is it faenstag) clips. Anybody on here remember thoem? I'm such a pack rat that I still have those clips!

The first time I turned on that receiver, I tuned in EL9A in Liberia, west Africa. He was ontwenty-meter am phone. I think he's still operating, but not on am any more; think I heard him not too long ago on ssb. I also, later on, put a key in the plate lead--to the plus terminal of the 90-v b battery, and used it as a qrp (guess it was qrpp) rig.

72.4481525

Don Coleman, W1Voq

From qrp-request@Think.COM Mon Nov 22 15:44:34 1993
From: randy@cyphyn.radnet.com (Randy)
Subject: Re: More on wooden radios,6SN7
Date: Mon, 22 Nov 1993 15:44:16 -0500 (EST)

OH MY!!

The 6SN7 bread board everything kit! Knight Kit ?

Yes! it had a couple dozen Fhanstock clips, a 6SN7 dual triode, audio xformer, RF coil, Tune cap, and a vol control!

B+ was about 80 vdc from a transformer...and 6,3 vac for the heater.

The base was a dark dark brown colour wood?

Pictorial and schematic diagrams were furnished, to make ---oh---
A receiver for 540-1600kc, an audio amp, an oscillator (audio) and
a CW tone modulated RF osc...and a wireless phonograph (use radio to hear it)
(I subbed a microphone of course!)...and a relay closer (?)

I had one of those as a kid...my Dad bought me it to keep me out of his TV suplys

Guess what! At AES, you can make a 12AU7 version!

You need order up the parts and do it all yer self, but it is ALL there.

(I suppose you could use a 12SL7 instead, thus be octal-based)

--

Randy KA1UNW If you get a shock while
 servicing your equipment, "Works for me!"
randy@192.153.4.200 DON'T JUMP! -Peter Keyes
 You might break an expensive tube!

From qrp-request@Think.COM Tue Nov 23 09:44:35 1993
Date: 23 Nov 1993 09:41:53 -0500 (EST)
From: "D A Coleman (ext. 2850)" <DACOLEMAN@fair1.fairfield.edu>
Subject: Re: More on wooden radios,6SN7

Young Whipper_snapper,

Om, my set was built in 1949. We tacked it on a piece of wood my father just happened to have around. (He saved everything!) The coil was wound on the cardboard sleeve from a flash-light battery (that's what we called them then.) The batteries had cardboard sleeves you could take off them when they had died.

Anyway--talk about brewing from scratch! I remember figuring out whereto tap that coil, wound from #22 magnet wire, to get the regen playing on twenty.

You can do it with transistors now.--a sweetly operating regen--just as good as any tube job. And of course you can still make it out of wood.

72.4151883

W1VOQ

From qrp-request@Think.COM Mon Nov 22 14:27:09 1993
Date: Mon, 22 Nov 93 13:32:55 CST
From: cieslak@cgc9.eda.mke.ab.com (Brian Cieslak)
Subject: my dirty rotten editor

okay

okay

I'll see what I can do...

I get carried away with These passionate plea`s.

73,
Brian AE9K

I'm using the sun mailtool V3

so much for technology

From qrp-request@Think.COM Mon Nov 29 12:09:05 1993
From: khd@karloff.lanl.gov
Subject: Re:NN1G, QRPp, etc.
Date: Mon, 29 Nov 93 10:10:26 MST

Well, I have a subscriber of the qrp mail list since sometime in the summer. I have enjoyed reading the comments of the various contributors; but I have not felt that I had anything to contribute so far. However, today I thought I would share my impressions of the items listed in the subject line.

First, the NN1G I bought as a kit from Dan's Small Parts and Kits. Other than a couple of missing capacitors and the fact that I murdered a couple of the IF cans cutting off the leads (I ordered more from Dan) the rig went together fine. I took some windings off a couple of toroids to get the VFO into the 4 Mhz range and to get the transmitter to zero beat the receiver. (At least I think it is.) I finally was able to get it on the air on Friday, Nov. 26th. About 440pm MST (2340Z) I answered the CQ of an N8. He turned out to be in West Virginia and gave me a 579 on the signal. On the other hand I was hearing him about 559 (What does this say about reciprocity, Chuck?). However, shortly after we began the QSO some stronger signals came up nearby and I lost him in the QRM. By that time, as I started to tune around the band, I discovered that everyone had gone into contest mode, so I shutdown the rig. Maybe tonight or tomorrow I can try some more. In any case I have 1 QSO at a distance of about 1400 miles. I don't know what my power output is but I suspect I must be near the kilowatt level. Bye the bye, I have installed my boards in an aluminum box from RS. It is 5-1/4"x3"x2-1/8". It was a bit snug, and I had to pull Rx board out to do its alignment;but it does make for a compact unit.

Regarding QRPp: I found it to be a fine publication. It seems like a tremendous bargain. Keep up the good work.

Keith, AB5QE (formerly KJ5QH, N5SIV, K7RBJ, KN7RBJ, as Jeff would say)

From qrp-request@Think.COM Sun Nov 28 14:15:35 1993
Date: Sun, 28 Nov 93 11:14:59 PST
From: dh@deneb.csustan.edu (Doug Hendricks)
Subject: NC40 Mobile Report

Jim, WA6GER sent this to me for the next issue of QRPp. I thought that you might enjoy hearing about the success of his mobile trip with the NorCal 40. Also, it might inspire you to post your experiences with the NC40. If you have comments for Jim, send them to me and I will relay as he is not on internet. 72, Doug

KI6DS

My wife and I just returned from a trip to Idaho Falls, visiting Mac, W7JDZ, a member of Norcal.

In the hills east of Reno, fired up and on a CQ, got a nice qso from Southern Utah. Out in the Nevada flats, worked four states, and many friends and five NorCal members. None were scheduled. A pleasure to have two QSO's with Bob, W6CYZ, and several with Mac, K6AGN, Mac, W7JDZ, Hall, N6SYW. Also, Forrest, N6ZBZ, in Redlands. All except one signal report was Q5, and I did get two QRZeds from stations I called.

Most reports were 559 to 579. The antenna used was a Hamstick, mag mounted on the roof of the car. The NorCal-40 fit in the front of the console just exactly, and no ignition noise, albeit used the cig. lighter for power. The key used was a TenTec with paddle built in, a mate for the Century 21. Not the greatest, but my code speed was much, much less than my highway speed, so it worked fine. It sat on the back part of the console, and with my arm on the arm rest, wrist dangling off the end, it was easy to key.

I made about 12-15 contacts on the way up, one lasting for 80 miles, a real ragchew. Could have made more, but why hog the band?

Footnote: Put the rig on the Bird wattmeter to compare output with Mac's NorCal 40. Mine was putting out just over one watt. Yipes! I had not cranked the drive up after I tweaked the capacitor.

On the return, worked a half dozen stations, but with winds up to 50 mph, lots of trucks throwing up slush, snow, rain, tended to ruin my concentration of copying and sending. As for driving, this was across Nevada. Don't have to do much except correct the steering every so many miles.

Purpose of this is not to brag (ahem). No, I've been QRP mobile before, so knew what to expect. Here, just want to say how well it works. Get that antenna up high, above a good ground plane. jim

PART II

In the mobile report sent out previously, I must have been doing a lot of ego satisfying, cuz I did not give proper credit to the NorCal-40, and to Wayne, N6KR, who designed it.

The rig worked flawlessly, which I expected it to; perhaps that is why I neglected to comment on the rig. It is a pleasure to operate mobile. Tuning is smooth, and quickly zeros in on the desired station. Covers the allotted kilohertz without straining the arm, a plus in mobile operating. The RF gain control really comes in handy when the big guns are almost fracturing the front end. I used it a lot. All reports were complimentary as to tone, keying shape, etc., and some of the comments were from old time CW ops who DO know a clean signal.

So, all credit to Wayne, N6KR, who has designed a QRP rig with superhet receiver, which is just as easy to build and get on the air as a direct conversion, supposedly simpler, rig. Just between us, Wayne's rig is easier!

72/3 jim

WA6GER

{By the way Jim is the co-founder of NorCal QRP club and is the one who packaged all of those kits for the NorCal 40}.

From qrp-request@Think.COM Tue Nov 30 16:00:24 1993
From: ryme@husky.bloomu.edu
Date: Tue, 30 Nov 93 16:03 EST
Subject: NE602 RCVR

The author of the W1AW RCVR started a new company to handle this type of project. I have the address at my QTH. I'll drop a line tomorrow with all the details.

73 (or 72 in this case)
John N3PFF

From qrp-request@Think.COM Tue Nov 30 13:48:29 1993
Date: Tue, 30 Nov 93 12:54:27 CST
From: cieslak@cgc9.eda.mke.ab.com (Brian Cieslak)
Subject: NE602's

Is \$2.59 too much to pay for a NE602an. I was browsing the digikey catalog and found them listed in the Phillips linear parts section?

Any suggestions where I could get a better price. I'm going to order 10 or 20.

Brian - AE9K

From qrp-request@Think.COM Wed Dec 1 09:10:09 1993
Date: Wed, 1 Dec 1993 08:22:13 -0500
From: Brad Mitchell <bmitchel@CBA.Kodak.COM>
Subject: NN1G Mark II authorization from Dave Benson

Hey anybody out ther know Dave Benson personally?

As I said before, I got the artwork for the NN1G Mark II, because K2DB talked to him on the air, and asked if we could get the artwork to build a few.

I have scanned the artwork, and a friend Dave, N2PSH is converting to postscript format now. (mirror imaging too).

We could put this on think.com under qrp artwork if we had Dave's ok, then we could all have access to the artwork, and make nn1g's at will.

73 all, and if nobody can get ahold of Dave, I guess I'll write him a letter.

Brad WB8YGG

From qrp-request@Think.COM Fri Dec 3 13:56:07 1993
Date: Fri, 3 Dec 1993 13:08:12 -0500
From: Brad Mitchell <bmitchel@CBA.Kodak.COM>
Subject: nn1g mk II

Well, last night I couldn't sleep, so I turned on the 20 meter nn1g mk II , and
walah there were a bunch of VK's and ZL's right there for the picking.

Now if I only had had a beam, or maybe 5 watts, I might have worked them.
The inverted vee couldn't do it.

Maybe it's time to put a vertical on the roof again.

73 all, and have a great weekend.

Brad WB8YGG

From qrp-request@Think.COM Wed Dec 1 19:50:47 1993
Date: Wed, 1 Dec 93 18:50:38 -0600
From: adams@chuck.dallas.sgi.com (Chuck Adams)
Subject: NN1G Boards

ooops. Forgot to mention. The pair of boards that make up the
NN1G Mark II are available for FAR Circuits for \$9.00/pair and
\$1.50 for postage. This is (to me) a good deal, as I don't think
that you can make them at home for this much, considering the time
it takes to drill the holes, etc. IMHO.

Again, I don't get anything from this deal, just a bystander.

dit dit

SIG

-----cut here-----

Chuck Adams, K5FO - CP60

adams@sgi.com

QRP ARCI Awards Chairman

From qrp-request@Think.COM Tue Nov 23 06:09:06 1993
Date: Tue, 23 Nov 1993 06:08:48 -0500

From: Brad Mitchell <bmitchel@CBA.Kodak.COM>
Subject: NN1G enclosures

I'm not sure if this topic has been brought up before or not, but here goes.

I wonder what types of enclosures people have used out there for their NN1G rigs. Something that looks professional is my goal. (ok I'll say it.. not nailed to an old hunk of scrap pine.. not even yellow pine.)

What if any effect does stacking the two boards have.

I was considering a small RS box that is plastic. Just big enough for the 2x4 board size. Any suggestions would be appreciated.

73 all WB8YGG

From qrp-request@Think.COM Tue Nov 23 10:20:57 1993
Subject: Re: NN1G enclosures
Date: Tue, 23 Nov 93 10:19:13 EST
From: "John F. Woods" <jfw@ksr.com>

> I wonder what types of enclosures people have used out there for their NN1G
> rigs. Something that looks professional is my goal. (ok I'll say it..
> not nailed to an old hunk of scrap pine.. not even yellow pine.)
> I was considering a small RS box that is plastic. Just big enough for the 2x4
> board size. Any suggestions would be appreciated.

What's the point of having a 2x4 circuit board if you don't mount it to a 2x4?
:-)

Actually, I have one of the RS metal cabinets (the one with the grey and black color scheme, the one that really comes in at least three sizes only one of which RS carries).

Maybe a clear plexiglass container would be good, but then you'd have to put LEDs inside...

From qrp-request@Think.COM Fri Dec 3 14:29:45 1993
Date: Fri, 3 Dec 93 13:28:56 -0600
From: adams@chuck.dallas.sgi.com (Chuck Adams)
Subject: NN1G Mark II

Gang,

The artwork looks pretty good from Think.COM for the NN1G Mark II. Wondering why Dave kept some of the traces so small in some areas.

I'll move over the parts list and schematics for NN1G Mark I. Sorry, I don't have the art work in machine format. I'll let you know when I move it over later this afternoon.

For the individual who just finished the Mark II, and I apologize for not writing down the info but it's off the screen forever, the noise may be reduced by reducing the resistor value across pins 1 and 2 for the MC1350 IF Amp. Try 5K and 2.7K values to see the effect. I have played with this on my 40M version and I don't think that the overall sensitivity of the rig was decreased enough to worry about it. I've seen some designs with lower values, but this is probably an individual preference. Dave's original value in the Mark I (which I assume is the name, since he calls the newer rig the II) was 10K, certainly too high a resistance.

As for the QSK timing, the capacitor from the Gate of Q2 (MPF102) may be reduced in value to speed up the receiver recovery. I haven't played with this as it was not a problem on the Mark I.

If someone has the schematic for the new rig and can fax it to (214) 788-1376, I'll change the Mark I to match the new version and put it on Think.COM.

Ok, i've moved the files

nn1g.mark1.ps and nn1g.parts to Think.COM. Bruce will put them in the artwork directory. You just send the nn1g.mark1.ps file to a postscript printer and you'll get the schematic that's in the Jan '93 issue of the Quarterly, but it's from my schematic program. I don't think it has any errors and it has no mods. If the lines are too wide, add a line '0 setlinewidth' after the other set* lines somewhere near the beginning of the file. I just forgot to do it and I've asked Bruce to do it, but he might not get a chance. Just in Case. :-)

I have marked the parts with typical markings found on parts in the junk box for the people new to building, etc. Some variations may occur. Refer to the ARRL Handbook for parts markings, etc. The parts file is just plain ASCII text. I have another set for 40M if that is your preference. I just didn't want to load WT1M's system up, and I can do that. :-)

I just got yesterday a new copy of Dan's Small Parts Catalog. He's got some great deals. About 6 typed 8.5x11" pages full of goodies just in time for Christmas season. Also a 10% discount (or was it

15%?) for ordering before Christmas.

I listened to 40M on the NN1G Mark I on the work this a.m. The first time in a long time. There was an AMTOR station about 7.005MHz. Is there no honor anymore? Heard a bunch of 1's working DX, but I couldn't hear the DX with the hamstick antenna. QRN bad as a thunderstorm was in progress in the Dallas area. I'm building a boat right now, thus the delay in building any new rigs.... :-) :-)

Ducks have moved into the back yard.....

73 de k5fo dit dit

p.s. Sorry, didn't find the homebrew rules for QRP ARCI. I thought I had posted them to the net recently, but didn't find them in the archives or in any of my directories. See you on the Sprint tomorrow, 20M only, 14.060 -/- . The digital group will keep us pinned down probably. :-)
gl n t tst dit dit

SIG

-----cut here-----

Chuck Adams, K5FO - CP60

adams@sgi.com

QRP ARCI Awards Chairman

From qrp-request@Think.COM Thu Dec 2 14:25:01 1993

Date: Thu, 2 Dec 1993 14:23:50 -0500

From: Brad Mitchell <bmitchel@CBA.Kodak.COM>

Subject: nn1g Mark II artwork

Well, the first real useful artwork is now on think.com

It's in postscript format as everybody seems to want.

it's under the directory /pub/radio/ham/qrp/artwork

the name of the file is nn1g.eps

This file contains both the receiver and transmitter board , mirror imaged so that you can down load this file , print it on a laser printer, then iron it onto copper etc. following the July 1993 QST article method.

Please acknowledge the following:

NN1G, Dave Benson, for all his efforts in designing and debugging, and making

this available for us to build.

N2PSH Dave Mensing, for taking the two tiff files that were scanned, and combining them and mirror imaging them, then converting to postscript format.

K5FO Chuck, for calling up NN1G to make sure it's ok to do all this.

Over and out..

Brad WB8YGG

From qrp-request@Think.COM Fri Dec 3 10:12:22 1993
Date: Fri, 3 Dec 1993 07:11:48 PST
From: David_Mensing.Roch817@xerox.com
Subject: nn1g Mark II artwork in TIFF format

I noticed a few folks asking for the nn1g Mark II artwork in TIFF format. Well, it's now available on think.com in two files (nn1g-rx.tif, nn1g-tx.tif) in the directory '/pub/radio/ham/qrp/artwork'.

Enjoy,

Dave, N2PSH
mensing.roch817@xerox.com

From qrp-request@Think.COM Mon Nov 29 07:36:43 1993
Date: Mon, 29 Nov 1993 07:36:24 -0500
From: Brad Mitchell <bmitchel@CBA.Kodak.COM>
Subject: NN1G Mark II continued

First sorry about the message without a title except 94/5296, but I sent that message from home, and forgot the title. Anyway, I made my first contact with the NN1G Mark II on 20 meters all the way to Hamlin NY (5 miles), pre planned with K2DB. I had called cq several times this weekend, but all I ever got was YGG 5NN , well, I didn't want to contest, so I just politely said thanks but no thanks. I don't consider those contacts, so I still haven't had a non planned qso in my book.

Later in the day K2DB stopped over. (He's one of those tester types). he tuned around for a second with the NN1G MK-II and within a second made a contact with someone out in the middle of the country.

I really want to thank Dave Benson NN1G for all of his efforts in getting this designed and published. Hats off to a dedicated ham!!

73 all Brad WB8YGG

From qrp-request@Think.COM Mon Nov 29 13:48:22 1993
Date: Mon, 29 Nov 93 12:48:03 -0600

From: adams@chuck.dallas.sgi.com (Chuck Adams)
Subject: NN1G Mark II Kit

Danny Stevig at Dan's Small Parts and Kits, 1935 South 3rd West #1,
Missoula MT 59801, has two kits available now.

NN1G Mark II Kit for either 80, 40, 30, or 20M for \$49.95 + \$3.75S&H.
This kit does NOT have the air variable cap - boards, components on the
board and 10K audio pot. You must provide case, plugs, knobs, etc.

NN1G Mark II Kit for either 80, 40, 30, or 20M for \$59.95 + \$3.75S&H.
This kit does have the air variable cap - boards, components on the board
and 10K audio pot. You must provide case, plugs, knobs, etc.

These kits use the larger 10.7M IF cans and has some corrections and
updates to the boards. Boards are manufactured by FAR Circuits. I
have not seen the new boards yet. I'll let you know when I get my
kit. I have one on order now.

This rig will be featured in the Jan '94 issue of QRP ARCI Quarterly.

If you have any interest in this rig, you should get your order in
immediately. I'd send a MO, if you can afford the extra \$0.59 at
7-11 store to get one.

I understand that rigs will start to ship in two or three weeks, but
don't quote me on that. Patience is virtue.

I seem to hear rumblings from several people that the parts for RF are
getting scarce. Seems like the kit business and experimenters are not
a large market at the present time and seems to be decreasing.

Think about it. How many hams do you know that experiment very much?
It's time consuming and rounding up parts is sometimes a nitemare,
especially if you are very busy and have a real job to do. The overhead
of supplying parts in quantities of one'sies and two'sies is tremendous
with todays standards of living. Not too many people want to live on
\$12,000 a year.

I am not associated with or paid by Dan's Small Parts and Kits for this
information and it's distribution. New catalog out from Dan too. Two
stamps to the above address will get you a new catalog.

I'm going back to my hole now. de k5fo dit dit

oh, point I was trying to make. Parts prices have increased recently

and will continue to increase. Also, a lot of the parts you and I are used to using are disappearing. Substitution will be required and will become an art unto itself.

dit dit

SIG

-----cut here-----

Chuck Adams, K5FO - CP60

adams@sgi.com

QRP ARCI Awards Chairman

From qrp-request@Think.COM Tue Nov 30 09:43:40 1993

Date: Tue, 30 Nov 1993 09:41:36 -0500

From: Brad Mitchell <bmitchel@CBA.Kodak.COM>

Subject: Re: NN1G Mark II Kit

> Danny Stevig at Dan's Small Parts and Kits, 1935 South 3rd West #1,
> Missoula MT 59801, has two kits available now.
>
> NN1G Mark II Kit for either 80, 40, 30, or 20M for \$49.95 + \$3.75S&H.
> This kit does NOT have the air variable cap - boards, components on the
> board and 10K audio pot. You must provide case, plugs, knobs, etc.
>
> NN1G Mark II Kit for either 80, 40, 30, or 20M for \$59.95 + \$3.75S&H.
> This kit does have the air variable cap - boards, components on the board
> and 10K audio pot. You must provide case, plugs, knobs, etc.

Please Note, Danny currently doesn't have the 12.3 Mhz xtals for sale that he has listed in his catalog. He must have run out kitting parts for the NN1G kits.

This rig will be featured in the Jan '94 issue of QRP ARCI Quarterly.

>

> I seem to hear rumblings from several people that the parts for RF are
> getting scarce. Seems like the kit business and experimenters are not
> a large market at the present time and seems to be decreasing.

I think not, Chuck, parts may be getting harder to get, but that's because the demand is very high.

For instance:

Try to find a bottle of Ferric Chloride at you local Radio Shack in the Rochester area... I dare you , it's difficult, because a bunch of people have been turned on to this, and watch out, it's spreading!

>

> Think about it. How many hams do you know that experiment very much?
> It's time consuming and rounding up parts is sometimes a nitemare,
> especially if you are very busy and have a real job to do. The overhead
> of supplying parts in quantities of one'sies and two'sies is tremendous
> with todays standards of living. Not too many people want to live on
> \$12,000 a year.

I disagree ,Chuck, experimenting is reaching a new all time high
with new higher function components at our diposal thanks to the
current communications rage.

>
oh, point I was trying to make. Parts prices have increased recently
> and will continue to increase. Also, a lot of the parts you and I are
> used to using are disappearing. Substitution will be required and will
> become an art unto itself.

>
Actually parts prices are comming down from my perspective.

I haven't seen such good deals on the ne-602's as I have recently from 624
kits. WOW!

73 Brad WB8YGG
Chirp Chirp

From qrp-request@Think.COM Tue Nov 30 12:45:31 1993
Subject: Re: NN1G Mark II Kit
Date: Tue, 30 Nov 93 9:39:11 PST
From: bobh@hpesoc1.cup.hp.com (Bob Headrick)

I have been hearing a lot on this channel about the NN1G tranceiver.
Could someone mail me some of the specs? I'm interested in how it
compares with the NorCal 40 which has:

- single conversion receiver
- crystal filter
- RIT
- 4.5"x4.5"x2"
- sidetone generated by receiving part of transmitted signal
- covers ~40Khz of band (easily mod for wider coverage)
- ~2W output
- 15mA current drain on RX

I'm interested in 20M; if the NorCal kits were still available I would move one up there, but I hate to cut mine up :-).

Thanks and 73.

Bob Headrick WA70VU
bobh@cup.hp.com

From qrp-request@Think.COM Wed Dec 1 19:32:20 1993
Date: Wed, 1 Dec 93 18:32:11 -0600
From: adams@chuck.dallas.sgi.com (Chuck Adams)
Subject: NN1G Mark II Transceiver

Gang,

Good news. Just got off the phone with Dave Benson, NN1G, designer and whatever for the rig shown in Jan '93 issue of the QRP ARCI Quarterly. This rig is the NN1G Mark I.

In the Jan issue of the QQ he is going to have the Mark II. The article should have the schematics, board layout, and parts listings for 80-20M. So, if you haven't gotten in your application for membership for the ARCI, you may not get one, unless I or someone else on this group makes an effort to get it to you. :-)

Dave has graciously released the whole kit and kaboodle (sp?) to the public domain, thus the images, etc. may be posted to this group and put in any and all ftp locations. So fire away, those of you who have the information. I'll scan in the article as soon as it comes out and put it on Think.COM (again gang, remember to thank Bruce for the server). How long have we been going now? 9 months or so? Time flies when you're having fun.

I am stalled on a bunch of my projects due to workload this past few weeks. The dam will open again next week, for those of you who miss my prolific postings. :-)

In the last issue of QRPP, there is a notice for a contest using the NorCal 40 and WAS race. I will not be in competition for the K5FO award. :-) I'd look kinda of silly giving that award to myself. Not that I have that much of a chance of winning it. :-)

Remember the Sprint Contest this weekend. I'm at work on the way to the ranch, and I'll get the rules and post them later tonite or early tomorrow.

Also, the University starts in the morning. Delayed a couple of days, but darn worth the wait. :-)

cu on 40 dit dit

SIG

-----cut here-----

Chuck Adams, K5FO - CP60

adams@sgi.com

QRP ARCI Awards Chairman

From qrp-request@Think.COM Tue Nov 30 10:26:43 1993
Date: Tue, 30 Nov 93 09:24:54 CST
From: msdooley@rockdal.aud.alcatel.com (Michael S. Dooley)
Subject: NN1G MkII

Chuck,

I take it this is the newer version of the venerable NN1G kit? And the same price (I think)? Sounds like a good Christmas gift!!!

Mike Dooley KE4PC

msdooley@rockdal.aud.alcatel.com

From qrp-request@Think.COM Wed Dec 1 09:05:27 1993
Date: Wed, 1 Dec 1993 08:18:47 -0500
From: Brad Mitchell <bmitchel@CBA.Kodak.COM>
Subject: NN1G on other bands.

Anybody out there make an NN1G work on another band?

I'm going to etch another set of nn1g MK-II boards soon so that I can start experimenting with that idea.

Is there much activity on 17 meters?

73 All, WB8YGG

From qrp-request@Think.COM Fri Dec 3 12:13:19 1993
Subject: nn1g parts list / placement?
Date: Fri, 3 Dec 93 9:07:06 PST
From: bobh@hpesoc1.cup.hp.com (Bob Headrick)

> I noticed a few folks asking for the nn1g Mark II artwork
> in TIFF format. Well, it's now available on think.com
> in two files (nn1g-rx.tif, nn1g-tx.tif) in the directory
> '/pub/radio/ham/qrp/artwork'.

>

OK, I picked up the artwork. It looks like a nice small rig. But... could someone scan the parts list and placement diagram? I can't do much without that. (Well, I can recognize the NE602's and could solder them in - but not much more :-)

Thanks in advance.

Bob Headrick WA70VU
bobh@cup.hp.com

From qrp-request@Think.COM Fri Dec 3 16:46:26 1993
Date: Fri, 3 Dec 93 13:47:31 PST
From: Raymond.Anderson@EBay.Sun.COM (Ray Anderson)
Subject: NN1G schematic

Chuck, K5F0 has just posted the schematic for the nn1g rig. Real nice schematic except the postscript code cuts off everything above a line drawn through R12 to D3.

The fix is pretty simple:

At about line 103 in the postscript code there is a line that says :

0 -210 mm translate

change it to :

0 -310 mm translate

Here is a snippet of the .ps file around the offending line:

```
} def
basefont
1 setlinecap
1 setlinejoin
3 setmiterlimit
0 setlinewidth
90 rotate
0 -310 mm translate
/Courier 2.7 Font
/Courier 2.7 Font
```

/Courier 2.48 4.96 0 DefFont

Schematic comes out real nice after that fix.

Thanks Chuck.

72's,

Ray WB6TPU

From parish@Think.COM Fri Dec 3 16:50:27 1993

From: Edward Parish <parish@Think.COM>

Date: Fri, 3 Dec 93 16:50:25 EST

Subject: NN1G schematic

Date: Fri, 3 Dec 93 13:47:31 PST

From: Raymond.Anderson@EBay.Sun.COM (Ray Anderson)

Chuck, K5F0 has just posted the schematic for the nn1g rig. Real nice schematic except the postscript code cuts off everything above a line drawn through R12 to D3.

The fix is pretty simple:

At about line 103 in the postscript code there is a line that says :

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} def
basefont
1 setlinecap
1 setlinejoin
3 setmiterlimit
0 setlinewidth
90 rotate
0 -310 mm translate
/Courier 2.7 Font
/Courier 2.7 Font
```

/Courier 2.48 4.96 0 DefFont

Schematic comes out real nice after that fix.

Thanks Chuck.

72's,

Ray WB6TPU

Hang on, I'll change it...

From parish@Think.COM Fri Dec 3 17:01:31 1993
From: Edward Parish <parish@Think.COM>
Date: Fri, 3 Dec 93 17:01:30 EST
Subject: NN1G schematic

Chuck, K5F0 has just posted the schematic for the nn1g rig. Real nice schematic except the postscript code cuts off everything above a line drawn through R12 to D3.

[.....]

It is fixed in directory.

From qrp-request@Think.COM Fri Dec 3 09:18:14 1993
Date: Fri, 3 Dec 1993 09:17:15 -0500
From: Brad Mitchell <bmitchel@CBA.Kodak.COM>
Subject: NN1G Up & Running

I'm forwarding a not from Paul, who apparantly is in internet Limbo right now.
73 Brad WB8YGG

-From: Paul Mackanos, Construction, 1/23/KP 24301, (x13966)
Subject: NN1G Up & Running

Well, the debugging is done, and the 20 meter version of the NN1G Mark II is up and running at K2DB. Had a few problems along the way, and all were building related. Things to watch for 1) when you etch your own board (yes there are those of us who would rather HOMEBREW from scratch than send our hard earned money out) make sure it is completely etched. I thought mine was, but I found 2 little fuzzies (shorts) on the rx board. Fixed them, and the RX took right off. 2) Check each part VALUE carefully, my TX would not oscillate, and I found that I had put in 470 pf caps in the oscillator instead of 47 pf. Changing them, and off it went. This is a lesson to those of you you have a surplus or electronics store in your area that has the parts

in cardboard boxes (don't trust what it says on the box, look and verify the value).

Having just gotten it up and going, and making 2 quick contacts with area hams, I have two things I have to work on. 1) RX seems to have a little too much background noise. (Changed the .033 cap to .047 and the .005 cap to .1 and most of the noise went away, but still too noisy & thnaks to Brad, WB8YGG for that tip.) The RX does not offer full QSK it seems. When I was operating it at above about 13 wpm, the RX seems to act SEMI-QSK, any one got any suggestions to get it FULL QSK, what we gotta do, I haven't looked at the schematic about that yet???

Thanks to Brad WB8YGG for the use of his time and equipment to help me debug this NN1G Mark II, it is going to be a lot of fun running it.

As for the L0 & Xtals, I chose 10.240 Mhz and this puts the L0 at 3760 to come up with 14.000. The rig seems to track from 14.000 to 14.067 with the standard values. I had to add 66pf to the L0 coil to get it to come down to that freq. It first oscillated at 3918, 33 pf brought it down to 3818 and the next 33 pf (66 total in parallel) brought it right on at 3760. Brad, WB8YGG will be changing his IF also, his 10.000MHZ xtals let WWV bleed thru quite readily (even though it it not in a box yet) and mine does not. At least Brad can keep up with the UTC time on a minute to minute basis. Any furthur changes, and I will print here. If ya want, send me a note, and we can talk direct here if you have any specific questions or comments.

72 de Paul K2DB

Paul

From parish@Think.COM Thu Dec 2 14:09:48 1993

From: Edward Parish <parish@Think.COM>

Date: Thu, 2 Dec 93 14:09:48 EST

Subject: nn1g.eps file

Date: Thu, 2 Dec 1993 13:22:09 -0500

From: Brad Mitchell <bmitchel@CBA.Kodak.COM>

Bruce, I put the nn1g mark II artwork in the directory
pub/radio/ham/qrp/artwork if you could enable it for reading that would be great.

It's the postscript printable mirror image of the n1g Mark II artwork.
thanks... Brad WB8YGG

The file is now readable. If there are any problems accessing it, send me mail.

Ed

Sorry if this is a repeat, even our mailer complains at times...

From qrp-request@Think.COM Fri Dec 3 09:31:42 1993
Date: Fri, 3 Dec 93 08:30:08 CST
From: msdooley@rockdal.aud.alcatel.com (Michael S. Dooley)
Subject: No Code Folks

>
>> >Chuck Adams writes:<
>> >WARNING: these transactions are monitored and there are legal and
>> >moral issues that you should follow.
>> >
>> >I see that Andrew doesn't mind who he offends as I find his signature
>> >offensive. Just a personal note. I believe in freedom of speech, but
>> >there are some things that others do find offensive.
>>
>> I agree... not to cause a flame war or anger Andrew, but I find the
>> sig line offensive, too.
>>
>> Mike Dooley KE4PC
>> msdooley@rockdal.aud.alcatel.com
>>

>Andrew N80FS writes:<
>You can't anger or offend me, for I am a No-Code which has been put-
>down, trampled, and ignored in the name of the hobby.
>

You know, I like the No Code folks. Before they came along our club was just languishing. If you wanted to do something, it took an act of Congress. A bunch of them yelled of doom and destruction when the No Codes came along, but Guess What?!? After the No Code, our membership grew! We now have extended the tower of the club HF station, added a second tower for 6, 2 and 432 SSB/FM/CW enthusiasts AND started getting some activity on Packet. We've got two new HF rigs, a new computer and I can't think of what else. Who pushed this? The No Code folks! They may not all be interested in HF or code, but by golly they have the enthusiasm many of the other members of our club had lost. This is getting to be a fun hobby again!.

Oh yes! many have upgraded and are into QRP and homebrew, too! Yep, I like those No Code folks!
Mike Dooley KE4PC
msdooley@rockdal.aud.alcatel.com

From qrp-request@Think.COM Fri Dec 3 23:56:29 1993
From: andrews@fms.com (Andrew Sargent N80FS)

Subject: Re: No Code Folks

Date: Fri, 3 Dec 1993 23:45:41 -0500 (EST)

> From ncoast!usenet.INS.CWRU.Edu!Think.COM!qrp-request Fri Dec 3 17:42:10 1993
> Return-Path: <ncoast!usenet.INS.CWRU.Edu!Think.COM!qrp-request>
> Received: from ncoast by fms.com with uucp (Smail3.1.28.1 #1)
> id m0p5jCS-0000Z8C; Fri, 3 Dec 93 17:42 EST
> Received: from usenet.INS.CWRU.Edu by ncoast.org with uucp (Smail3.1.28.1 #1)
> id m0p5eoR-0001D4C; Fri, 3 Dec 93 13:01 EST
> Received: from Mail.Think.COM by usenet.INS.CWRU.Edu with SMTP (5.65b+ida+/
CWRU-1.5.3-UUCPGW)
> id AA28735; Fri, 3 Dec 93 11:18:55 -0500 (from qrp-request@Think.COM for
fmsystem.ncoast.org!andrews)
> Received: by mail.think.com; Fri, 3 Dec 93 09:31:51 -0500
> Received: from Think.COM by mail.think.com; Fri, 3 Dec 93 09:31:42 -0500
> Received: from aud.alcatel.com (rockdal.aud.alcatel.com) by Early-
Bird.Think.COM; Fri, 3 Dec 93 09:31:32 EST
> Received: from waynesworld.aud.alcatel.com by aud.alcatel.com (4.1/SMI-4.1)
> id AA08365; Fri, 3 Dec 93 08:30:08 CST
> Date: Fri, 3 Dec 93 08:30:08 CST
> From: ncoast!usenet.INS.CWRU.Edu!rockdal.aud.alcatel.com!msdooley (Michael S.
Dooley)
> Message-Id: <9312031430.AA08365@aud.alcatel.com>
> To: Think.COM!qrp
> Subject: No Code Folks
> Content-Type: text
>
> >Andrew N80FS writes:<
> >You can't anger or offend me, for I _am_ a No-Code which has been put-
> >down, trampled, and ignored in the name of the hobby.
> >
>
> You know, I like the No Code folks. Before they came along our club was
> just languishing. If you wanted to do something, it took an act of Congress.
> A bunch of them yelled of doom and destruction when the No Codes came
> along, but Guess What?!? After the No Code, our membership grew!
> We now have extended the tower of the club HF station, added a second tower
> for 6, 2 and 432 SSB/FM/CW enthusiasts AND started getting some activity
> on Packet. We've got two new HF rigs, a new computer and I can't think
> of what else. Who pushed this? The No Code folks! They may not all
> be interested in HF or code, but by golly they have the enthusiasm many
> of the other members of our club had lost. This is getting to be a fun
> hobby again!..
>
Man am I glad that I found somebody that sees things from my prospective.
I think my previous posts said it all, this just exemplified it!
>
> Oh yes! many have upgraded and are into QRP and homebrew, too! Yep, I like

> those No Code folks!
> Mike Dooley KE4PC
> msdooley@rockdal.aud.alcatel.com
>

Don't get me wrong, one of these days I _wil_ upgrade; I'm just happy and content with being a No-Code for now...

(Mike must be an Extra, I think I just found another good-natured elmer!)

--

Mesmerized by a decade of hate,	! AMATEUR =	N8OFS
Flowers and remorse,	! ARMY MARS =	AAN5HJT
Fading vision lost in time,	! CB =	THE NEON KNIGHT
Tragedy on course!!! - Frontline Assembly	! HACKER =	TH3 N30N KN16Ht

From qrp-request@Think.COM Fri Dec 3 10:04:40 1993
Date: Fri, 3 Dec 93 09:10:49 CST
From: cieslak@cgc9.eda.mke.ab.com (Brian Cieslak)
Subject: No-Code issue

Hey guys.....I'm sensing negative vibes again.....
let's think pleaseant thoughts....QRP---DX----Homebrew Megarigs

"Can't we all just learn to get along"

Brian - AE9K

From qrp-request@Think.COM Fri Dec 3 10:34:44 1993
Date: Fri, 03 Dec 1993 09:36:50 -0600 (CST)
From: "JEFF M. GOLD" <JMG@tntech.edu>
Subject: NorCal 40

Hi All,

finally got to operate my NorCal 40.

My evaluation:

The kit:

*this is an evaluation comparing it to commercial kits.. so it is way too picky for what it was designed for-

The artwork and instructions were good quality. The parts identification could probably have been a little better for a beginner.. but still ok. The schematic was first class as was the documentation, better than a good deal of the commercial kits out there.

The packaging of the kit was excellent. The kit has a low parts count and everything is on one board. The PC board is clearly silk screened. The parts on the board were not too densely packed and easy to place. The board was good quality. One of my personal favorite parts of this project was that most of the jacks and connectors were board mounted. There also wasn't many jumpers needed. This board design took a great deal of careful planning and came out on top of the heap in my opinion. It is really nice to finish building the rig and not spend 2 days running wires all from panel mounted controls and jacks to the board. The finished project also looks a lot better.

The case is another TOP of the line item for this kit. It is GREAT. What do I mean by GREAT-well first of all it looks and feels as if you can throw it out of a plane, pick it off the ground and continue a QSO immediately without any repairs. It also looks very nice. In addition, the case was also carefully designed so that if you want to remove the top and tinker with the controls inside, it is very easy to do so. I recently built the ARK40.. and loved it. Well I like to tinker with a new built radio till it feels right. With the ARK 40 it is pretty much of a major project to take the case apart and get to the bottom board. The only other rig that I have seen that does this is the MFJ QRP rigs. They also would make great kits and are very similar to the NorCal 40 in one board all on the board no wires all over the place design.

I had a slight problem with the rig when I first built it. Turned out to be a blown capacitor and 2 chokes that were not of specified values. This is probably me and no one else had this problem as far as I know. I seem to be cursed with this. I built the HW9.. and each soldering joint was a work of art. Put it together and it didn't work. Has a bunch of people try to locate the problem. Finally got some good help and my friend traced the problem to the double balanced mixer. I was told by Heath that these parts are NEVER bad and I must have done something wrong building. Well my friend pulled a comparable part out of a homebrew he had made. Stuck it in the HW9 and everything worked... Moral of the story ... there are bad parts out there.. but don't worry the number is so small that I am probably the only one that gets them HI HI.

The same guy who found the HW9 problem has been working on QRP designs for a while. I gave him the NorCal 40 to play with. The good news is that he hasn't shut up about the design of the radio. He said he couldn't see all that much to improve upon and loves it. He went into detail about how he felt that in the design process the designer would get to a particular part of the circuit and say.. "well how can I redesign this part to use common parts and make it uncomplicated". The bad news is that I think he has given up on his design.. said he couldn't think of what he would do different.

I like the fact the radio has RIT, an on/off switch and is really small. This is about perfect size for a portable rig. I was really impressed with the receiver. Conard, WS4S had the rig to find the blown capacitor and other problems while I was on vacation. He got it running just in time for the CQ contest last weekend. He worked all over the world and said the front end of the receiver really held its own.. he doesn't give compliments easily. I really liked the keying, it seems to fit my style of CW. The sidetone note on the rig wasn't really to my liking, but this could have something to do with the way he set it up.. didn't have time to tinker with it.

This kit is easily comparable and beats many of the kits in the \$120-\$160 range.

Thanks guys ... boy did you do some job.

72

Jeff, AC4HF

From qrp-request@Think.COM Mon Nov 29 14:29:10 1993
Date: Mon, 29 Nov 1993 13:29:04 -0600 (CST)
From: KELL@LARK.JSC.NASA.GOV
Subject: NORCAL and QRPP

I have seen some rave reviews of the NORCAL magazine QRPP. I have not seen any info on how to/much to join NORCAL and get the magazine. Could someone please mail me the info.

Thanks

Ted Kell@lark.jsc.nasa.gov
KC5CUW

From qrp-request@Think.COM Mon Nov 29 11:29:53 1993
From: bwhite@dsd.camb.inmet.com (Bill White)
Subject: Novice with a soldering question
Date: Mon, 29 Nov 1993 11:29:44 -0500 (EST)

I am a complete novice kit builder. I have the NorCal 40 QRP transciever, but it is the first kit I will have built in the modern era, so I decided to build the CMOS Super Keyer II from R&R Research as practice. I have a couple of questions about soldering.

My soldering procedure is this. I have an Ungar soldering iron with two speeds -- 25 watts and 33 watts. I use the 25 watt speed pretty much exclusively, since

/\ <-- The crest.
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- 1.) The biggest problem I have is that when I solder the molten solder wicks up the iron, and I get little peaks over the pads. Maybe this isn't a problem, but my solder joints never look like the ones I see in commercially made equipment.
- 2.) The next problem I have is that I get a bunch of junk from the flux all over the board. Do I just clean this up with some carcinogenic solvent or other? Should I just ignore it? It seems aesthetically displeasing to leave things that way.
- 3.) The 1/8 inch tip seems very clumsy when used with this particular kit (the keyer.) There is a smaller tip, maybe 1/16 inch. Is this necessary? Is the 1/8 inch conical tip better? It seems like it would be clumsier than the chisel tipped one.

I hope these questions are not too elementary.

Peace,
Bill White
N10SA

From qrp-request@Think.COM Fri Dec 3 17:42:01 1993
From: hideg@qmserv.erim.org (Steve Hideg)
Date: Fri, 03 Dec 1993 09:04:41 EST
Subject: Offensive signature (was ft

Reply to: Offensive signature (was ftp)
Is this the sig in question?

>--
>Tell Me Something I Don't Know, ! HAM = N80FS
>Show Me Something I Can Use, ! ARMY MARS = AAN5HJT
>Push The Buttons, ! CB = THE NEON KNIGHT
>Connect The God-Damn Dots!!! - Ministry ! HACKER = TH3 N30N KN16Ht

What's so offensive about it? They are just words.
Don't like them? Then DON'T READ THEM.

Don't you have better things to do (like playing radio) than be offended by
a signature?

Cut out the PC crap and get on with your lives.

--Steve, N8HSC

<no sig>

From qrp-request@Think.COM Wed Nov 24 15:49:56 1993
Date: Wed, 24 Nov 93 14:49:39 -0600
From: adams@chuck.dallas.sgi.com (Chuck Adams)
Subject: OHR

Gang,

I just got my QST for December today.

1. Page 215. Note that the cost of the OHR WM-1 wattmeter has gone up

to \$89.95 + \$4.50S&H.

I talked to Dick at OHR last week. The prices on four QRP rigs are now:

Sprint (the W7EL rig) \$119.95

Explorer (the new version of the 40 or 20 old rig) \$149.95 and now available for 30M.

Spirit \$219.95

and a 2 band rig called The Classic for \$269.95.

More details as I get them.

I'll be on 40 with the NorCal 40 all this weekend as time permits.
It's going to get below 30 degrees F here and it's supposed to snow
and sleet too. May have to crank the power above 1W to stay warm. :-)

Just kidding, just kidding.

dit dit

SIG

-----cut here-----

Chuck Adams, K5FO - CP60

adams@sgi.com

QRP ARCI Awards Chairman

From qrp-request@Think.COM Wed Nov 24 16:23:49 1993

Date: Wed, 24 Nov 93 15:23:36 -0600

From: adams@chuck.dallas.sgi.com (Chuck Adams)

Subject: OHR revisited

Ooops!! forgot the most important part. I had talked to Dick W. at OHR previously about how I ran the Spirit with the power cranked down to under 2 watts. At the time he thought that I should not do that, as the circuit was optimized to 5W. I asked that he check his to see how the spectrum looked. Well, he did and he said that it looked great.

He is now putting an adjustable pot on some of the rigs to make them adjustable from 0 to max level that the rig is capable of. This with a know accessable from the back. Neat stuff. A plus for may people, I'm sure.

again, dit dit

SIG

-----cut here-----

Chuck Adams, K5FO - CP60

adams@sgi.com

QRP ARCI Awards Chairman

From qrp-request@Think.COM Mon Nov 22 12:17:54 1993

Date: Mon, 22 Nov 93 11:23:53 CST

From: cieslak@cgc9.eda.mke.ab.com (Brian Cieslak)

Subject: Re:wooden radioes..etc

Let's not forget the prolific use of paper clips to connect power from the 6V lantern battery spring terminals...or was that to power up my first computer??

I like the idea of using hundreds of volts to power QRP rigs...That really exemplifies that QRP is NOT for sissies. Just think your filaments will consume more power than your transmitting...I think that's an important design goal as my shack was a little

As far as your decision...use what you have now and put the stuff you need on your christmas list..Nothing puzzles a well meaning relative more than giving them a list with transformers, chokes, variable caps and the elusive toroids on it.

ps What color stain goes with carpet tacks.

73,

Brian AE9K

From qrp-request@Think.COM Fri Dec 3 08:48:02 1993

From: "Kevin Anderson" <GGANDERSON@Augustana.edu>

Date: Fri, 3 Dec 1993 07:45:54 GMT-500

Subject: Re: open bottle (was QRP HOMEBREW)

> > > Speaking of beer, has anyone thought of building a QRP rig inside a
> > > beer can?

> >

> > Gives the word "HomeBrew" a whole new meaning. Sorry...

> >

> > Dan KB1JX

> >

> Don't be sorry, it's a valldidly good idea, Hmmm...

Ah, but for you mobilers, beware of "open bottle" laws. :-)

kevin

* * * * *
Kevin L. Anderson, Geography Dept., Augustana College
Rock Island, Illinois 61201 USA phone: (309) 794-7325
e-mail: gganderson@augustana.edu or kla@helios.augustana.edu
* * * * *

From qrp-request@Think.COM Fri Dec 3 09:12:16 1993
Date: Fri, 3 Dec 93 08:12:05 -0600
From: adams@chuck.dallas.sgi.com (Chuck Adams)
Subject: Our Friend

Our Friend N80FS writes:

>You can't anger or offend me, for I am a No-Code which has been put-
>down, trampled, and ignored in the name of the hobby.
>
>I suppose it is, however, time to change my sig (Where did I put my
>Frontline Assembly CD???)
>
>--
>Tell Me Something I Don't Know, ! HAM = N80FS
>Show Me Something I Can Use, ! ARMY MARS = AAN5HJT

I was not trying to anger, offend, trample, ignore, or any other way trying to attack you. It's just that in this day and age, there seem to be a lot of people that want to have things their way. Everybody wants a piece of the pie, but nobody wants to do the work to make it.

I did not say anything about code. I did not say anything about ham radio. I said that I was offended by your language in your signature. That was it. In real life you can say whatever you want, but remember that everything that you post to this group is stored forever. Is that the way you want to be remembered? I wouldn't.

End of discussion. EOT

SIG

-----cut here-----

Chuck Adams, K5FO - CP60
adams@sgi.com
QRP ARCI Awards Chairman

From qrp-request@Think.COM Fri Dec 3 23:56:50 1993
From: andrews@fms.com (Andrew Sargent N80FS)
Subject: Re: Our Friend
Date: Fri, 3 Dec 1993 23:54:30 -0500 (EST)

> From ncoast!usenet.INS.CWRU.Edu!Think.COM!qrp-request Fri Dec 3 17:42:06 1993
> Return-Path: <ncoast!usenet.INS.CWRU.Edu!Think.COM!qrp-request>
> Received: from ncoast by fms.com with uucp (Smail3.1.28.1 #1)
> id m0p5jCQ-0000gqC; Fri, 3 Dec 93 17:42 EST
> Received: from usenet.INS.CWRU.Edu by ncoast.org with uucp (Smail3.1.28.1 #1)
> id m0p5d0d-0000IhC; Fri, 3 Dec 93 11:05 EST
> Received: from Mail.Think.COM by usenet.INS.CWRU.Edu with SMTP (5.65b+ida+/
CWRU-1.5.3-UUCPGW)
> id AA24925; Fri, 3 Dec 93 10:34:42 -0500 (from qrp-request@Think.COM for
fmsystem.ncoast.org!andrews)
> Received: by mail.think.com; Fri, 3 Dec 93 09:12:22 -0500
> Received: from Think.COM by mail.think.com; Fri, 3 Dec 93 09:12:16 -0500
> Received: from sgi.sgi.com (SGI.COM) by Early-Bird.Think.COM; Fri, 3 Dec 93
09:12:14 EST
> Received: from [192.48.147.5] by sgi.sgi.com via SMTP (931110.SGI/910110.SGI)
> for qrp@think.com id AA05330; Fri, 3 Dec 93 06:12:08 -0800
> Received: from chuck.dallas.sgi.com by sgidal.dallas.sgi.com via SMTP
(920330.SGI/911001.SGI)
> for @sgi.sgi.com:qrp@think.com id AA22640; Fri, 3 Dec 93 08:12:05 -0600
> Received: by chuck.dallas.sgi.com (930416.SGI/930416.SGI)
> for @sgidal.dallas.sgi.com:qrp@think.com id AA02558; Fri, 3 Dec 93 08:12:05
-0600
> Date: Fri, 3 Dec 93 08:12:05 -0600
> From: ncoast!usenet.INS.CWRU.Edu!chuck.dallas.sgi.com!adams (Chuck Adams)
> Message-Id: <9312031412.AA02558@chuck.dallas.sgi.com>
> To: Think.COM!qrp
> Subject: Our Friend
> Content-Type: text
>
>
> Our Friend N80FS writes:
>
> >You can't anger or offend me, for I _am_ a No-Code which has been put-
> >down, trampled, and ignored in the name of the hobby.
> >
> >I suppose it is, however, time to change my sig (Where did I put my
> >Frontline Assembly CD???)
> >
> >--

```

> >Tell Me Something I Don't Know,          ! HAM =      N80FS
> >Show Me Something I Can Use,             ! ARMY MARS = AAN5HJT
>
> I was not trying to anger, offend, trample, ignore, or any other
> way trying to attack you. It's just that in this day and age,
> there seem to be a lot of people that want to have things their
> way. Everybody wants a piece of the pie, but nobody wants to do
> the work to make it.
>
I _don't_ want everything my way, and I'm willing to work my butt off
for this hobby!
>
> I did not say anything about code. I did not say anything about
> ham radio. I said that I was offended by your language in your
> signature. That was it. In real life you can say whatever you
> want, but remember that everything that you post to this group
> is stored forever. Is that the way you want to be remembered?
> I wouldn't.
>
OK, in the intrest of offending less people than before, I have
changed my sig to something a little lower key. As long as my
First Ammendment rights are not oppressed, nor are yours, we can
get along, fine. Yes, I _do_ want to be remembered this way; I
want to be remembered as one open minded individual proving that
you can be different and get along just fine.
>
> End of discussion. EOT
>
>
> SIG
> -----cut here-----
> Chuck Adams, K5FO - CP60
> adams@sgi.com
> QRP ARCI Awards Chairman
>
'Out!'

--
Mesmerized by a decade of hate,          ! AMATEUR =   N80FS
Flowers and remorse,                     ! ARMY MARS = AAN5HJT
Fading vision lost in time,              ! CB =        THE
From qrp-request@Think.COM Mon Nov 29 10:32:27 1993
Date: Mon, 29 Nov 93 10:32:12 EST
From: rjl3f@shamash.cs.virginia.edu
Subject: Paddles

```

I'm getting ready to buy an new iambic paddle and am looking for some advise. I've played with both the Jones and Bencher paddles at my

latest hamfest and liked the Jones paddle a lot. I'm really interested in hearing from any one who has used a couple of different brands and has some solid advise. Is the Jones key worth the \$135 price tag? How do others (Kent, Vibroplex, ???) compare?

My father seems to remember a review of several of these in the last year or two, but I have been unable to find the article. Does anybody know which Magazine and which issue has the most recent review of several paddles.

Thanks,
Bob (N4AHB)

From qrp-request@Think.COM Mon Nov 29 16:40:23 1993
Date: Mon, 29 Nov 93 14:40:53 -0700
From: tjf@beta.lanl.gov (Tom J Farish)
Subject: Re: Paddles

Hi...I haven't seen any replies in the group, so here goes. There was a LONG\ article in '73 offering a mini-review of many paddles....I'll have to do some digging to find which month, but it was within 6 months or so...the cover was a red backgroud with lots of paddles on the cover. The only paddles I was able to playwith were a Bencher iambic and a Vibroplex 'Bug'. I ended up with a Bencher and I like it.

-Tom
KJ5LT

From qrp-request@Think.COM Sat Nov 20 17:52:26 1993
From: andrews@fms.com (Andrew Sargent N80FS)
Subject: Phillips/Signetics 1-800 BBS
Date: Sat, 20 Nov 1993 17:50:08 -0500 (EST)

I've seen a lot of discussion about PLL's, so I dicided I would give you guys the Ph# for their BBS. But, you have to keep it a secret. One other thing, they do have PLL design programs but you have to request them.

Phillips/Signetics BBS 1-800-451-6644

So long for now...

--
Tell Me Something I Don't Know, ! HAM = N80FS
Show Me Something I Can Use, ! ARMY MARS = AAN5HJT
Push The Buttons, ! CB = THE NEON KNIGHT
Connect The God-Damn Dots!!! - Ministry ! HACKER = TH3 N30N KN16Ht

From qrp-request@Think.COM Wed Dec 1 14:33:25 1993

Date: Wed, 1 Dec 93 14:33:27 EST
From: skitch@NADC.NADC.NAVY.MIL (M. Squicciarini)
Subject: QPR Sprint this weekend??

Someone mentioned that there is a QRP sprint this weekend??
Dec 5 for two hours. Does anyone have any details ie time
exchange scoring?

73 -- marty -- nr3z skitch@nadc.navy.mil

From qrp-request@Think.COM Thu Dec 2 09:38:35 1993
Date: Thu, 2 Dec 93 08:44:43 CST
From: cieslak@cgc9.eda.mke.ab.com (Brian Cieslak)
Subject: re: QRP : Homebrew

Geoff,

I tend to agree with Jeff. Just soldering together kits is
borderline homebrewing. True home brewing is not only getting or
making the parts yourself but trying to mooch as many free samples
from the vendors that you can.(right Jeff?)

I do have to admit though, it is nice to have someone chase down
all the parts for you and kit them up. That way I can start
building and not lose interest in the project while playing
expeditor.

Since the person who provides the kit can buy quantity he can get
you cheaper prices and save some S/H charges. Of course a lot of
kit vendors (like Ramsey) realize the importance of chasing down
parts as part of the home
brew effort and leave one or two out of the kit so you have to
chase them down anyway.

73,
Brian - AE9K

From qrp-request@Think.COM Fri Dec 3 12:08:23 1993
Date: Fri, 3 Dec 93 12:04:01 EST
From: klaudon@PICA.ARMY.MIL
Subject: qrp = cross country skiing

I think that there is an honored place for what is derogatorily referred to

as "fanaticism", in most all endeavors. It is the folks who are REALLY driven by a certain concept, ideal, or goal, who get out there and move mountains, develop the first PCs in their garages, find the cure for cancer, keep qrp and CW (yeeeeaaahhhhhhhh!!) alive, etc. Unfortunately, some of these folks combine this powerful and positive human trait with another powerful human trait - egotism. Egotism usually leads quickly to intolerance, hatred, and sometimes, cruelty and abuse!

Sorry for the sermon, guys, but I just can't let remarks like have just come across the net go unchallenged. Saying that people who don't want to WORK for a qso, just BUY them with bux for KWs, and won't work anything but strong signals, have ceased to be hams (full stop!), is just out of line. C'mon guys, its a hobby! I fell off my chair laughing when I saw the ad with K7SS wearing fatcat sunglasses and chomping on a cigar with a s--- eating grin on his face, leaning on a linear (that he OWNS). You gotta be able to laugh at yourself, regardless of whether or not other people appreciate your own rarefied point of view, even about something like CW which is, as we all well know, is a CLOSED discussion (nod in the up-and-down direction, class, my HS math teacher used to say).

It reminds me of the downright intolerance that many cross country skiing buffs have for the fat, non-environmentally conscious, money-and-fancy-ski clothes-with-only-Vaurnet-sunglasses, non-vegetarian downhill skiers. Many of them also make a point out of telling everyone on the slope (as they go out of their way to be obvious that they are going UP the mountain, and not DOWN) that only theirs is "REAL" skiing.

I remember from 20 years ago, when I was only a kid and had no opportunity to get into qrp, that the QRPers even then had a holier-than-thou reputation, earned or not. Let's not go and EARN it, for Pete's sake!

Yes, yes, I agree that the bands would be a lot nicer, and more qrp stuff would be available with more features for less \$ commercially, etc., if everyone out there thought as we did. But I still contend, there is NOTHING at all wrong with qro operation as a concept. A lot of hams just want to HAVE armchair qsos with their daily nets, skeds, etc. A lot of retirees keep themselves busy this way. And why not? Part of the hobby IS to try to maintain reliable communications for use when it may be needed.

In my opinion, the biggest cause of problems on the bands is not the QRO, it is who is using IT. The exam process is just far too easy, and so there are a lot of lids out there clogging up the bands who just didn't have to learn and struggle to get their tickets. We don't even have to MENTION the CW req. It IS a privelege to get on the air, and many folks just don't respect that.

BTW, I just got my QRP ARCI membership certificate - it looks great!

Kalman Laudon WD6CZI in 2 land
QRP ARCI No. 8385
<klaudon@pica.army.mil>

From qrp-request@Think.COM Wed Dec 1 19:14:31 1993
Date: 01 Dec 1993 18:49:18 EST
From: "JHeise" <HARRIS.JHEISE@IC1D.HARRIS.COM>
Subject: QRP ARCI Sprint (CW)

Marty, and the group

Yes, there is the QRP ARCI Holiday Spirits Homebrew Sprint (CW) this weekend. It is Dec 5th, Sunday, from 2000-2400Z. This is similar to most ARCI contests. Exchange: RST, State/Prov/Country, ARCI # or power out for non-members. Operate 5 watts or less. Bonus points for homebrew, but not necessary to run homebrew to enter the contest. Scoring same as usual 5 points members, 2 points non-members. I am pretty sure it is listed in QST. This is all I have with me, but I can publish the full details here from the ARCI QRP Quarterly tomorrow if anyone needs them.

Jan - WA4VQD jheise@ic1d.harris.com

From qrp-request@Think.COM Thu Dec 2 01:22:14 1993
Date: Thu, 2 Dec 1993 1:20:35 -0500 (EST)
From: FOXG@WCSUB.CTSTATEU.EDU
Subject: QRP ARCI SPRINT (CW)

Does homebrew mean scratch built or just home soldered?
73, Geoff WA1U

From qrp-request@Think.COM Thu Dec 2 11:30:38 1993
Date: Thu, 2 Dec 1993 10:29:28 -0600 (CST)
From: Peter Hardie <hardie@herald.usask.ca>
Subject: Re: QRP ARCI SPRINT (CW)

ARCI has a definition of what constitutes a homebrew rig for the purposes of their homebrew sprints. I can't find the definition here but, off the top of my head, it specifically excludes kits, such as Heathkit, which have detailed instructions as to how to build the kit. But the rules do allow a Heathkit if it has been substantially modified by the contest operator (e.g. adding AGC would be OK but replacing one of the switches wouldn't

count :-). If I find the definition I'll put it on here if someone else doesn't beat me to it.

Pete "1. Plug in soldering iron" Hardie
ve5va.qrp@usask.ca

From qrp-request@Think.COM Sat Nov 20 15:48:08 1993
From: rich@mulvey.com
Subject: QRP clubs
Date: Sat, 20 Nov 1993 15:43:32 -0500 (EST)

Well, I'm a member of the NorCal QRP club, and anxiously awaiting the Dec. issue of their magazine. :-)

Can anyone tell me the addresses/dues/contacts for the other major QRP groups like ARCI, etc?

- Rich

From qrp-request@Think.COM Thu Dec 2 12:18:07 1993
Date: Thu, 2 Dec 93 11:24:15 CST
From: cieslak@cgc9.eda.mke.ab.com (Brian Cieslak)
Subject: RE: QRP HOMEBREW

I guess I'll concede to Dan Curtin's opinion of Homebrew...I still have fond memories of trying to get a receiver kit to work. It probably took as much electronics theory and technique to realize that the coils I wound were wrong as it would have to design them right in the first place. Maybe I would have been more conscious of what I was doing if I had gone through the pain of calculating the number of windings and core types instead of just glancing at the instructions. All in all it was a learning experience too.

I confess...I started with a Heathkit. (!?) +

73,
Brian - AE9K

PS How much beer can you brew at home before the ATF tracks you down?

From qrp-request@Think.COM Thu Dec 2 13:07:49 1993
Date: Thu, 2 Dec 93 12:49:32 EST
From: dpt@ri.cadre.com (Dan P. Trainor)
Subject: RE: QRP HOMEBREW

> PS How much beer can you brew at home before the ATF tracks you
> down?

Speaking of beer, has anyone thought of building a QRP rig inside a
beer can?

From qrp-request@Think.COM Thu Dec 2 13:53:23 1993
Date: Thu, 2 Dec 93 13:40:09 EST
From: dpt@ri.cadre.com (Dan P. Trainor)
Subject: RE: QRP HOMEBREW

> Speaking of beer, has anyone thought of building a QRP rig inside a
> beer can?

Gives the word "HomeBrew" a whole new meaning. Sorry...

Dan KB1JX

From qrp-request@Think.COM Thu Dec 2 23:41:58 1993
From: andrews@fms.com (Andrew Sargent N8OFS)
Subject: Re: QRP HOMEBREW
Date: Thu, 2 Dec 1993 23:39:47 -0500 (EST)

> From ncoast!usenet.INS.CWRU.Edu!Think.COM!qrp-request Thu Dec 2 18:03:49 1993
> Return-Path: <ncoast!usenet.INS.CWRU.Edu!Think.COM!qrp-request>
> Received: from ncoast by fms.com with uucp (Smail3.1.28.1 #1)
> id m0p5N3s-0000JKC; Thu, 2 Dec 93 18:03 EST
> Received: from usenet.INS.CWRU.Edu by ncoast.org with uucp (Smail3.1.28.1 #1)
> id m0p5LBz-0000yxC; Thu, 2 Dec 93 16:04 EST
> Received: from Mail.Think.COM by usenet.INS.CWRU.Edu with SMTP (5.65b+ida+/
CWRU-1.5.3-UUCPGW)
> id AA03924; Thu, 2 Dec 93 15:36:21 -0500 (from qrp-request@Think.COM for
fmsystem.ncoast.org!andrews)
> Received: by mail.think.com; Thu, 2 Dec 93 13:53:33 -0500
> Received: from Think.COM by mail.think.com; Thu, 2 Dec 93 13:53:23 -0500
> Received: from relay2.UU.NET by Early-Bird.Think.COM; Thu, 2 Dec 93 13:53:21 EST
> Received: from spool.uu.net (via LOCALHOST) by relay2.UU.NET with SMTP
> (5.61/UUNET-internet-primary) id AA03060; Thu, 2 Dec 93 13:53:17 -0500
> Message-Id: <9312021853.AA03060@relay2.UU.NET>
> Received: from cadreri.UUCP by uucp6.uu.net with UUCP/RMAIL
> (queueing-rmail) id 135130.1535; Thu, 2 Dec 1993 13:51:30 EST
> Received: by ri.cadre.com (cadreri) (4.1/SMI-4.1)
> id AA17761; Thu, 2 Dec 93 13:40:09 EST
> Date: Thu, 2 Dec 93 13:40:09 EST
> From: ncoast!usenet.INS.CWRU.Edu!ri.cadre.com!dpt (Dan P. Trainor)
> To: Think.COM!qrp
> Subject: RE: QRP HOMEBREW

> Content-Type: text
>
> > Speaking of beer, has anyone thought of building a QRP rig inside a
> > beer can?
>
> Gives the word "HomeBrew" a whole new meaning. Sorry...
>
> Dan KB1JX
>
Don't be sorry, it's a vallidly good idea, Hmmm...

--
Tell Me Something I Don't Know, ! HAM = N80FS
Show Me Something I Can Use, ! ARMY MARS = AAN5HJT
Push The Buttons, ! CB = THE NEON KNIGHT
Connect The God-Damn Dots!!! - Ministry ! HACKER = TH3 N30N KN16Ht

From qrp-request@Think.COM Thu Dec 2 14:03:56 1993
Date: Thu, 2 Dec 93 11:08:15 PST
From: Spence S Wilhelm <Spence_S_Wilhelm@ccm.hf.intel.com>
Subject: QRP Hotel QSOs

Text item: Text_1

Gang,

I travel a lot in my job so have been quite active in working QRP from Hotel rooms. I use an MFJ 9040 transceiver, a home-brew antenna tuner, and a gel cell. This combination works well and has been quite reliable. I built the tuner from a schematic for a QRP 40 meter antenna tuner in "Solid State Design" by Hayward and Demaw. I've tried slinky verticals, dipoles in the room, and random wires hanging out the window. The latter seems to give the best performance.

Early this week I experienced something odd, maybe some of you can help. Monday night I set up the rig and tuned the antenna, I threw a wire out the window with an equal length counterpoise on the floor in the room. The band was not great but I was able to work NV from my room in San Jose, CA. The problem came on the second night, I set the rig up and started the tuning process. I found that the SWR would change just by touching or placing my hand near the metal part of the key or chassis of the radio. The first night I had no such problems, the setup both nights was the same. Does anyone have any ideas?

I can't be much help on your problem with the SWR. I am a reasonably new Ham (9 Months) and a newbie homebrewer (9 months) I am however VERY intrested in your experiences in Hotel room QS0. I have been trying to build something Q

for just this use, I spend most of my work life on the road, and the antenna problem has been my major stumbling block.

I am building a 30 Mtr rig for hotel rooms because I thought the ant would be easier to deal with. Please tell me of your experiences with the various antennas. How long is your long wire, what about the counterpoise? I would think a short wire would be difficult to tune, do you just drop it out the window? What about when the window does not open? What do you do for a ground?

How do you like the MFJ 9020 ?
(although i'd rather build something my self:)

Which ant tuner did you build? I am starting to think about building one myself. I am considering the "A NOVEL RESONANT ANTENNA TUNER" from the W1FB QRP note book, but building it with toroidal coils like the one in QRP Classics page 228 of the same design. I would like to use small caps like the Harmmarland APC 140 , although they might not have enough capacitance so I would have to maybe switch some more into the circuit.

My goal is to keep the size small and then build it into my rig.

I would like to hear your thoughts as well as from anyone else.

Talk to you all later

Bob Berlyn bob.berlyn@Chowda.sbs.com
N1PWU

* OFFLINE 1.54

From qrp-request@Think.COM Tue Nov 23 08:57:49 1993
Date: Tue, 23 Nov 93 13:16:25 GMT
From: jkearman@arrl.org (Jim Kearman)
Subject: ORP Meeting in New England

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>From mvjif@mvubr.att.com Mon Nov 22 20:24:41 1993
Received: from mgate by jek with SMTP
    id AA22371 ; Mon, 22 Nov 93 20:24:36 GMT
>From POP3@uu2.psi.com. Mon Nov 22 15:14:31 1993
Received: from gw1.att.com by uu2.psi.com (5.65b/4.0.071791-PSI/PSINet) via SMTP;
    id AA12771 for poparrl; Mon, 22 Nov 93 15:20:32 -0500
Message-Id: <9311222020.AA12771@uu2.psi.com>
From: mvjif@mvubr.att.com
```

Date: Mon, 22 Nov 93 15:16 EST
Original-From: mvubr!mvjf (James M Fitton +1 508 960 2577)
To: ehare@arrl.org, jkearman@arrl.org, lau@arrl.org
Subject: QRP-NE Meeting

QRP Club of New England

Tentative agenda for QRP-NE meeting on 11/28/93

Host Hotel, Rt. 495, Boxboro MA.

In Lounge, 508 263 8701

(Reservations made for 15 - 20)

- * 12 p.m. - lunch
- 1 p.m. - antennas

1. Pre-meeting meeting (see *)
2. QRP-NE Meeting from 3:00 - 4:00 p.m.
3. Welcome new members
4. W1FMR - Coordinator report - Agenda, proposals,
5. NN1G - HB manager report - New HB Project
6. NX1K - FD Manager report - FD & QRP FD
7. W1CFI - Treasuere Report - Membership Renewal
8. N1CUU - Editor Report - New editor search, deadlines
9. NT1R - Member's News report
10. NG1G - Membership report
11. KN1H - Technical Editor report
12. WA1JXR - Net Manager report
13. Direction to move in ?
14. Where to get parts ?
15. Director's meeting each month on SSB net
16. New 30 meter frequencies
17. How to get more club involvement ?

- * You are invited to arrive early, have lunch, and then help put up an antenna(s).

We intend to put antenna wire in trees, use SWR meter & ATU to show, and operate HB rigs prior to meeting.
W1FMR an NC40, NN1G a 40m (proposed club project),
W1CFI a surface mount 80m rig etc.....

Facing the hotel, ski hill is on right, seems like a good spot to do it. (As long as it does not snow)

Jim, W1FMR

Jim,

Greg, WA1JXR, and I were on the Worcester repeater this morning talking about club stuff and several comments were made that should be passed along to you for our meeting at the Host Hotel.

1. Should we continue with the annual renewal of dues or would a post card notice of dues expiration work better when inserted into the last newsletter?
Submitted by Bob, W1JLA. I know we talked about this once and I like what we do now better but its open for disucssion.
2. Should we limit terms of officers to 2 years or ?
It would spred around the work so no one would burn out.
3. One of the HP Ham Club members suggested that the HP club elect officers on a rotating basis so that only one new officer gets elected each year and all others move up to the next position.
4. Maybe its time for some bylaws or a constitution which would include membership renewal?
5. The SSB net will meet at 8pm next week as a experiment with the hope to avoid changing skip and band condx.

72,
Paul, W1CFI

From qrp-request@Think.COM Mon Nov 22 09:51:12 1993
Date: Mon, 22 Nov 1993 08:52:56 -0600 (CST)
From: "JEFF M. GOLD" <JMG@tntech.edu>
Subject: QRP ssb/contesing

All,

Well worked on the NorCal 40... found that the chokes were blowing because the PA transistor was shorted. It was shorted from the modification for the birdie..and a teeny solder bridge.. It appears to hear CW signals even without an antenna hooked up and the RIT seems to work and the output goes all the way to the final transistor.. so guess when I track down a replacement transistor, may be able to get the NorCal on the air..

Well since I didn't have any radios to fix or build this weekend, did all my chores and managed to get into the ARRL Sweepstakes for a few hours.. my first SSB QRP contest...used my Kenwood 850s with the Lightning Bolt 5 band Quad, the Gap vertical and a 160 meter dipole with tuner. Power output was real close to 4.8 watts max using the Kenwood compression and high boost for audio.

Observations:

Heard some serious QRP contesters.. they were into the high numbers, heard more on the air than I have in any other contest.

Even surprised me how well QRP worked on SSB

Couldn't believe how many people stopped their serious contesting to make comments about my signal, my REAL signal report and such. Easily over 65% of my contacts stopped and actually made comments. Comments varied from people insisting I was class "A" and made me repeat the "Q" about 20 times, to you are 20 over, MANY were "Great signal for Q". Think it may get people thinking about their power levels..since most people in the contest were "B" class or WAY TOO MUCH POWER.

I noticed that QRP was no different on 10,15,20 as far as I could tell from me getting through as easily as anyone else.

On 40 a little more power might have been nice (but then again I don't have a competitive antenna for 40 or below).

80 meters may be a case where 100 watts should be legal

***** a really good antenna makes a setup equal to using much higher power.. I have been informally contesting for a couple of years, I This is the first time I contested with the Quad.. It made a HUGE difference.

summary (may have to do a contest QRP for real one of these days):

80 meters	13 contacts	2 sections
40 meters	42 contacts	8 sections
20 meters	82 contacts	38 sections *Quad on this band
15 meters	19 contacts	8 sections
10 meters	22 contacts	2 sections

178 contacts 58 sections

72,

Jeff, AC4HF

From qrp-request@Think.COM Thu Dec 2 10:31:41 1993
From: Tom_Jennings <jennings@eng115.rochny.uspra.abb.com>
Subject: Re: qrp tube rigs
Date: Thu, 2 Dec 93 10:31:42 EST

Hi all,

Speaking about tube qrp rigs, I remember back in the late 60's there were a bunch of fellows in Chicago who had mobile 160 meter rigs. These rigs were 5 watts AM transmitters using 6aq5 tubes. They also tuned thier AM radios to 160 meters. I used to listen to them with my HQ110 before going to school.

I had the schematic but it may be lost by now, sigh!

TJ, kv2x

--

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Development Engineer | Fax: (716) 273 7262
|
ABB Process Automation |
Post Office Box 22685 |
Rochester, New York 14692-2685 |
|

Internet: jennings@jennings.rochny.uspra.abb.com

From qrp-request@Think.COM Wed Dec 1 17:41:04 1993
Date: Wed, 1 Dec 93 12:40:58 HST
From: Jeff Herman <jherman@uhunix.uhcc.Hawaii.Edu>
Subject: QRP watt meter

The lightbulb watt meter is something I've been pondering also. If you do use that make sure you reverse the sequence: start with the highest wattage bulb, then move down. Otherwise you'll be replacing the burned out low wattage bulbs quite often!

Jeff NH6IL

From qrp-request@Think.COM Wed Dec 1 14:25:19 1993
From: "Kevin Anderson" <GGANDERSON@Augustana.edu>
Date: Wed, 1 Dec 1993 13:22:56 GMT-500

Subject: QRP: qrp/qro debate -- the other side?

Hey, there is a set of letters in the latest (December) QST that go back and forth on the qrp/qro issue. One caught my eye (it might have been the last one), written from a QRO, that basically stated:

is it fair to them (the QRO) to expect them to deal with our weak signal? Especially when the QRO gives the CQ?

Obviously he/she doesn't have to talk with us and could just CQ again, hoping for a louder reply.

Many times we (the QRP) say "if I can hear I can work them" in championing our qrp units. True, as long as the other end is willing to deal with us. Apparently most are if we've developed this statement.

I'd be curious as to what the lower threshold of signal strength the average QRO expects nowadays. Is it 599 as he/she is? Or are most people good and interested in the contact even if they have to work at hearing you?

You guys have more experience than I do on this. Any ideas? (I realize I am asking the converted, but nonetheless....)

73 de Kevin, KB9IUA

Kevin L. Anderson, Geography Dept., Augustana College
Rock Island, Illinois 61201 USA phone: (309) 794-7325
e-mail: gganderson@augustana.edu or kla@helios.augustana.edu

From qrp-request@Think.COM Wed Dec 1 14:52:20 1993
From: Tom_Jennings <jennings@eng115.rochny.uspra.abb.com>
Subject: Re: QRP: qrp/qro debate -- the other side?
Date: Wed, 1 Dec 93 14:52:28 EST

> I'd be curious as to what the lower threshold of signal
> strength the average QRO expects nowadays. Is it 599 as
> he/she is? Or are most people good and interested in the
> contact even if they have to work at hearing you?

>

> You guys have more experience than I do on this. Any ideas?
> (I realize I am asking the converted, but nonetheless....)

>

> 73 de Kevin, KB9IUA

> *****

> Kevin L. Anderson, Geography Dept., Augustana College
> Rock Island, Illinois 61201 USA phone: (309) 794-7325
> e-mail: gganderson@augustana.edu or kla@helios.augustana.edu
> * * * * *
>

Frankly, I don't care how strong the signal is! If some one calls me I will answer and try my best to have a qso. I feel I accomplished some thing if I have a successful qso with some one with a weak signal and at the same time that person feels good that some one made an effort to talk to him.

TJ, kv2x

--

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Internet: jennings@jennings.rochny.uspra.abb.com

From qrp-request@Think.COM Wed Dec 1 18:29:59 1993
From: randy@cyphyn.radnet.com (Randy)
Subject: Re: QRP: qrp/qro debate -- the other side?
Date: Wed, 1 Dec 1993 18:25:44 -0500 (EST)

I don't operate QRP full time..as I qso a couple of guys, regularly and QRP puts us just too low to have a QSO....we 'd miss too much, and when giving ckt info or parts No.s a full copy is needed.

When I do run QRP, its just to see if I can reach some one....not to try for a lot of contacts / go for an award....(as I am a tinkerer more than anything else)... so my way of feeling about it may not apply.

If a QRO'er hears me, he hears me....if he don't , he don't. I try elsewhere.

I use the 'stalk n wait' method....(sit on a qso and catch the guy after qso is done)....which also lets me collect info on the guy so he only has to send the basic RST report-form letter, and I can concentrate on sending clearly to him, just the important stuff...find what he missed and resend what he missed till he gets it.

(IE send 1 item at a time; name name name ok? K qth qth qth ok? K
ur rst ##### ok? K qrp qrp qrp 35mw 35mw 35mw ok? K etc)

Possibly, by sending in such a manner to make their job easier, will cool
them down about qrping...gotta send so they can read it!

Sence I run 'QRO' (25 watts) too, when I am finishing a regular qso,
I keep my ears open for a possible qrper...as already, sence I began
Ham radio, I've been caught by too many of em to count....and who knows
how many I 'ignored' when I first began Ham radioing!

I also EXPECT that they may have a rig that can't send ON my freq...my be
as much off as 500cps....so I quick switch to wide pass on the receiver
JUST in case....and have been caught several times like that!

6AG7 xmit...(aprox 1 watt max) is still under construction...is a duplicate
of one I made 2 yrs ago... but this one will be on a hunk of plywood, WITH
its own power supply. ----

I may try it also on 3700kc/3710kc, DUSK ... but was desined to do just 40mtrs
7110kc DAYtime.

--

Randy KA1UNW	If you get a shock while	
	servicing your equipment,	"Works for me!"
randy@192.153.4.200	DON'T JUMP!	-Peter Keyes
	You might break an expensive tube!	

From qrp-request@Think.COM Thu Dec 2 10:20:26 1993
Date: Thu, 2 Dec 93 10:25:06 EST
From: bapplega@isd.csc.com (Bob Applegate)
Subject: Re: QRP: qrp/qro debate -- the other side?

I agree with KV2X... pulling a weak signal out of the noise and having a QSO
is far more satisfying than simply trying to find "40 over" signals. It makes
me think about how to get the best copy ("should I try the narrower filter?
What about the notch filter?"), which helps me learn how to use my station
better. Don't we all want to use our station to its fullest? I guess some
of the QRO ops don't.

As I read the letters in QST, it was hard to image the attitude of the fellow
who complained about QRP ops. What he said may be valid, but the way he stated
his case left something to be desired. And yes, if he had a hard time copying
someone, he had every right to say so (who knows... maybe the QRP op had a
KW amp sitting next to him that he could have turned on if only he knew!).

73

Bob, wa2zzx

From qrp-request@Think.COM Thu Dec 2 11:51:29 1993
Date: Thu, 2 Dec 93 11:51:21 -0500
From: wb9omc@ecn.purdue.edu (Duane P Mantick)
Subject: Re: QRP: qrp/qro debate -- the other side?

Said Bob -

"I agree with KV2X... pulling a weak signal out of the noise and having a QSO is far more satisfying than simply trying to find "40 over" signals."

I would have to agree and even go a step farther than that. It illustrates the difference between a REAL ham and one who simply BUYS his QSOs by spending money on watts and gets too lazy to make an *effort* to copy anything that isn't "armchair solid".

To such folks I would have to say (once again) if you want armchair copy, pick up the phone and leave radio to those of us who are willing to work at it.....

Hey, armchair copy is great when you have it, but if you get to the point where you refuse to work anything else you have ceased to be a ham, IMHO.

Duane
WB9OMC

From qrp-request@Think.COM Thu Dec 2 03:57:58 1993
Date: Wed, 1 Dec 93 22:57:52 HST
From: Jeff Herman <jherman@uhunix.uhcc.Hawaii.Edu>
Subject: QRP: homebrew

Well Geoff, to me homebrew means that I have to get all the parts myself and make substitutions for those I can't find. The only thing I start with is the circuit diagram (designed by someone else - I'm no EE!). The best parts sources in the world are junked TV's and radios, which can be found in your neighbor's trash cans.

Jeff NH6IL

From qrp-request@Think.COM Wed Dec 1 17:27:01 1993
Date: Thu, 2 Dec 93 09:16:18 EST
From: richard@dnd.icp.nec.com.au (Richard Urmonas)
Subject: QRP: Low cost wattmeter

The easiest way to make a wattmeter is to add a diode detector across a dummy load.

If you make your own dummy load use carbon compositon resistors if possible (not carbon film which are the common "carbon resistors"). Design for a power dissipation at least twice your expected max power (the resistors get very hot if run at full power rating).

The diode detector should be in the same case if you homebrew. Use a general purpose diode for QRP (1N914, 1N4148 etc.) anode to the input. A capacitor should be connected between the cathode and ground (100n parallel with 10n is good for HF. Use ceramic caps).

By measuring the voltage across the capacitor with a HIGH impedance voltmeter the output power can be calculated from the voltage which is the PEAK voltage

don't forget to allow for the diode voltage drop at low power (at higher power the error becomes small (0.4 dB at 2W).

73 Richard Urmonas VK3DRU

From qrp-request@Think.COM Fri Dec 3 14:40:17 1993
Date: Fri, 3 Dec 93 9:40:04 HST
From: Jeff Herman <jherman@uhunix.uhcc.Hawaii.Edu>
Subject: QRP: RS rcvr with homebrew xmtr

William KF9KI asked about using a SW rcvr with homebrew xmtr - that's exactly what my station consists of: a R.S. DX-400 rcvr (the best they ever built) and home made QRP xmtrs. At my mother's home back in Calif. I use an old DX-60 SW rcvr and homebrew xmtrs; the DX-60 drifts like crazy but I have fun. Gad, this hobby is great!

Now, PLEASE, let's have no code vs. no-code debates on here. Most QRP folks are CW fanatics. Those who have subscribed and post in this net must understand this. Also, remember everything you post here goes into private mail boxes - very personal! Feel free to give your views on rec.radio.amateur.policy but let's please stick to QRP related topics on this net.

And a public Thank-you to Chuck for the radio course he is putting together. (And Randy, keep those QRP tube xmtrs coming!)

Jeff NH6IL (ex: WA6QIJ)

From qrp-request@Think.COM Wed Nov 24 20:07:07 1993
Date: Wed, 24 Nov 1993 16:03:00 +0000
From: "ken (k.e.) harker" <kharker@bnr.ca>
Subject: QRP: Suggestion

I know I've only been on the list a little while, but I have a sugegstion

that might make it a little nicer to use. I am on three other mailing lists like this, and all of them have adopted the convention of prepending a certain short couple of letters and a colon to the beginning of their subject lines. For example, I belong to an amateur astronomy club at school that calls itself the Dartmouth Stargazers. We have a list, and everyone who posts something to the list uses SG: at the beginning of the subject line. So, a subject line might look like any of the following:

SG: Perseides meteor shower this week
SG: Aurora Update
SG: Anyone up for a star party Friday night?

With this convention, I can know just from looking at the subject of the message what list it is from - I don't even have to read the whole subject. This really makes it a lot easier to prioritize and read your mail, especially if you belong to multiple lists.

So, I am suggesting that we adopt a convention of prepending our subject lines with the QRP: prefix, like I have done with this message. It's a very easy habit to adopt, and it really does make a difference.

So, is this a good idea? What do y'all think?

_ken/n1pvb

From qrp-request@Think.COM Fri Nov 26 09:03:43 1993
From: Scott Wood <swood@vela.acs.oakland.edu>
Subject: Re: QRP: Suggestion
Date: Thu, 25 Nov 1993 15:16:18 -0500 (EST)

` We have a list, and everyone who posts something to
` the list uses SG: at the beginning of the subject line. So, a subject line
` might look like any of the following:
`

` SG: Perseides meteor shower this week
`

` So, I am suggesting that we adopt a convention of prepending our subject
` lines with the QRP:

I personally use elm-filters, and any mail from qrp@think.com is saved in an incoming file (mail folder) called ~/Mail/qrp

I don't really think it is necessary to have a subject line convention when all the mail is coming from the same place anyway.

swood

--

If you receive this signature, please return it to it's rightful owner:
swood@vela.acs.oakland.edu swood@argo.acs.oakland.edu
swood@unix.secs.oakland.edu swood@terminator.rs.itd.umich.edu

```
csh> more ~/.elm/filter-rules
```

```
::::::::::::
/u/vela/u1/swood/.elm/filter-rules
::::::::::::
if (to contains "qrp") then
    save /amd/vela/u/vela/u1/swood/Mail/qrp
```

```
csh> filter -r
```

```
Rule 4:  if (to = "qrp") then
        Save /amd/vela/u/vela/u1/swood/Mail/qrp
```

From qrp-request@Think.COM Tue Nov 30 02:03:15 1993
Date: Mon, 29 Nov 1993 12:54:00 +0000
From: "ken (k.e.) harker" <kharker@bnr.ca>
Subject: Re: QRP: Suggestion

In message "QRP: Suggestion", swood@vela.acs.oakland.edu writes:

```
> ` We have a list, and everyone who posts something to
> ` the list uses SG: at the beginning of the subject line.  So, a subject line
> ` might look like any of the following:
> `
> ` SG: Perseides meteor shower this week
> `
> `      So, I am suggesting that we adopt a convention of prepending our subject
> ` lines with the QRP:
>
> I personally use elm-filters, and any mail from qrp@think.com is saved in
> an incoming file (mail folder) called ~/Mail/qrp
>
> I don't really think it is necessary to have a subject line convention
> when all the mail is coming from the same place anyway.
```

All of which is fine and good if you have the option of using elm. I am personally on a proprietary mail system that doesn't support filters and just shoves everything into the inbox, regardless of where, when, who, or what it is. I'm probably not the only person who has this sort of setup, either.

Again, this is a suggestion. It doesn't seem to me like it has been followed over the weekend when I was out of touch, and if the list decides not to bother, I can deal with it. But it would make things easier for me and no doubt others as well.

_ken/n1pvb

From qrp-request@Think.COM Tue Nov 30 10:02:03 1993
Date: Tue, 30 Nov 93 09:51:26 EST
From: ABRC000 <ABRC%CATCC.BITNET@VTBIT.CC.VT.EDU>
Subject: Re: QRP: Suggestion

> In message "QRP: Suggestion", swood@vela.acs.oakland.edu writes:
>
> > ` We have a list, and everyone who posts something to
> > ` the list uses SG: at the beginning of the subject line. So, a subject lin
> > ` might look like any of the following:
> > `
> > ` SG: Perseides meteor shower this week
> > `
> > ` So, I am suggesting that we adopt a convention of prepending our subje
> > ` lines with the QRP:
> >
> > I personally use elm-filters, and any mail from qrp@think.com is saved in
> > an incoming file (mail folder) called ~/Mail/qrp
> >
> > I don't really think it is necessary to have a subject line convention
> > when all the mail is coming from the same place anyway.
>
> All of which is fine and good if you have the option of using elm. I am
> personally on a proprietary mail system that doesn't support filters and just
> shoves everything into the inbox, regardless of where, when, who, or what it i
> I'm probably not the only person who has this sort of setup, either.
> Again, this is a suggestion. It doesn't seem to me like it has been
> followed over the weekend when I was out of touch, and if the list decides not
> to bother, I can deal with it. But it would make things easier for me and
> no doubt others as well.
>
> _ken/n1pvb
I agree. My mail system doesn't support that stuff either and it is
a pain.

* Rodney Clayton KA3BHY Howard County Public Schools *
* Ellicott City, MD USA *
* Systems Programmer ABRC@CATCC.BITNET *

From qrp-request@Think.COM Tue Nov 30 15:23:00 1993
From: randy@cyphyn.radnet.com (Randy)
Subject: Re: QRP: Suggestion
Date: Tue, 30 Nov 1993 15:19:00 -0500 (EST)

Like this, right?

qrp is in the heading for subject.

I can go along with that...just need type 3 letters!

--

Randy KA1UNW

If you get a shock while
servicing your equipment,
DON'T JUMP!

"Works for me!"

randy@192.153.4.200

-Peter Keyes

You might break an expensive tube!

From qrp-request@Think.COM Thu Dec 2 14:42:23 1993

Date: Thu, 2 Dec 93 9:42:17 HST

From: Jeff Herman <jherman@uhunix.uhcc.Hawaii.Edu>

Subject: QRP: Tubes

Gang,

With all this talk of tubes I'll dig through both my projects books (from the mid 60's) and post some of the QRP tube xmtr circuits. Projects 1-10 were all transistors jobs because I didn't think anyone would be interested in tube xmtrs.

Jeff NH6IL (back in the days when we only had tubes: WA6QIJ)

From qrp-request@Think.COM Mon Nov 29 09:37:35 1993

Date: Mon, 29 Nov 1993 08:39:27 -0600 (CST)

From: "JEFF M. GOLD" <JMG@tntech.edu>

Subject: QRPP

HI all,

hope you had a good Thanksgiving.

Was going to send this private to Doug, but figured it deserved public.

Got my QRPP in time for Thanksgiving vacation. Had my new QST and CQ and a few other magazines lined up to relax with. Figured I would tackle the QRPP and just go through it quickly and get on to the REAL magazines. Well I ended up reading some of the articles 2-3 times and REALLY ENJOYED the publications.

My impressions of this last issue:

1. very professional
2. good mix of articles
3. articles were well written
4. AMAZING how this was done on the budget

5. why can this little? club produce such and excellent publication and QQ which must have much more resources isn't very good

When I joined the ARCI, I really looked forward to receiving my QQ. First I have received every issue describing QRP contests after the contest was over. The magazine is large in physical size, but the content wasn't up to even my lowest expectations. There are some good articles such as the NN1G, but all considered, very dissapointing.

Anyway, Doug I personally feel that you did a fantastic job. I wish I could get you and the other club members to move to Tennessee so that I can come to the meetings and become active in a real QRP club that is doing GREAT things.

Thanks and keep up the good work.

72

Jeff, AC4HF

From qrp-request@Think.COM Tue Nov 30 10:41:02 1993
Date: Tue, 30 Nov 1993 10:39:22 -0500 (EST)
From: FOXG@WCSUB.CTSTATEU.EDU
Subject: QRPP

I have just exceived my first issue and I'm totally blown away. This magazine has an incredible amount of editorial content. Lots to read and ponder. And, I'm fascinated by the PIXIE 2, an 80 meter transceiver that fits into a pill bottle.

My wish list of articles I'd like to see include a combination tuner/swr bridge for QRP ops. The MFJ tuner I use doesn't even deflect for my 2 watt OHR HP QRP Transceiver (great rig)!

73, Geoff WA1U

From qrp-request@Think.COM Tue Nov 30 11:54:39 1993
Date: Tue, 30 Nov 93 11:37:46 EST
From: dpt@ri.cadre.com (Dan P. Trainor)
Subject: QRPP

How can I subscribe to QRPP ?

Dan KB1JX

From qrp-request@Think.COM Sun Nov 21 18:47:24 1993
Date: Sun, 21 Nov 93 15:46:44 PST
From: dh@deneb.csustan.edu (Doug Hendricks)
Subject: QRPP #3 in the mail

Gang,

Issue #3 of QRPP will be mailed tomorrow, Monday Nov. 22. Some of you will get a Thanksgiving present if the mail works. It is being mailed first class, and should get to you by this weekend. Hope you enjoy it, and have a nice holiday. In case you are interested, we have 152 subscribers and 180 members as of Nov. 20, 1993.

72, Doug, KI6DS

Editor, QRPP, Journal of the Northern California QRP Club

To Subscribe & Join NorCal QRP Club, send \$5, plus your name, call, address, city, state, & zip to:

Jim Cates, WA6GER
3241 Eastwood Rd.
Sacramento, CA 95821

You will receive 4 issues of QRPP, which is published March, June, September, and December of each year.

From qrp-request@Think.COM Mon Nov 29 12:45:23 1993
Date: Mon, 29 Nov 93 10:45:05 MST
From: Doug Datwyler <datwyler@moons.sim.es.com>
Subject: QRPP from members #75 or less

Thanks to those who have offered, I have already asked if one of you can it, of course on a time available basis.

72/73 Doug Datwyler WR70
datwyler@moons.sim.es.com

From qrp-request@Think.COM Mon Nov 29 09:25:19 1993
Date: Mon, 29 Nov 93 07:25:10 MST
From: Doug Datwyler <datwyler@moons.sim.es.com>
Subject: QRPP from NORCAL club members, #75 or less

Greetings,

I just got done reading through one of the best little magazines I have seen, _QRPP_. To Doug Hendicks, this is one nice presentation, especially compared to _hambrew_.

I would like to know if any NORCAL member, #75 or less, would help provide me copies of the first two _QRPP_ issues? I pay copying and mailing costs.

TNX 72/73
Doug Datwyler WR70
datwyler@moons.sim.es.com

From qrp-request@Think.COM Wed Dec 1 03:15:08 1993
From: fax@sparc4@olivetti.Com (Marco Fassiotto)

Subject: QRPP Info

Date: Wed, 1 Dec 1993 09:12:07 +0100 (MET)

I see many positive comments about QRPP and I'm getting curious. I think that since it doesn't cost much it's probably worth a test subscription for a year. Anybody knows where I can turn to ask for info? I wish to know the rates for overseas subscribers and how I can pay for it.

Thank you,
73, marco

--

```
-----
Marco Fassiotto      | Voice : +39-125-524650 | ham  : IX1IIY/1
System Software Engineer | Fax :   +39-125-424294 | pkt  : ix1iiy@ik1brm-8
Laser Printers Project Dept. | Data:   +39-125-524374 |-----
Olivetti             | Internet : fax@sparc4.ico.olivetti.com
                    |                    fax%sparc4@olivetti.com
-----
```

From qrp-request@Think.COM Tue Nov 30 23:35:36 1993

From: andrews@fms.com (Andrew Sargent N80FS)

Subject: QRP|Any more Ascii schematics for qrp rigs???

Date: Tue, 30 Nov 1993 23:34:14 -0500 (EST)

Hello again,

I am still looking for more of those wonderful Ascii schematic qrp rigs that anybody might have on file. I've been putting some of the schematics in local Ham-newsletters, the gang(s) love them.

I already have NH6IL's 1-5 & 5-10 projects and the 6AG7 rig, but I am still looking for more.

Sometime in the near future, I will post conversions of 49MHz stuff to 6 Meters (about 20 converted devices). BTW, we finally figured out how to convert a cordless phone into a mini-6_meter repeater, which can be hooked directly into a Yeasu FT-2400 via the phone jack. Yes, us good-for-nothing, lasy, ignorant, (anything else???) No-Coder's have been at it again!!!

--

```
Tell Me Something I Don't Know,      ! HAM      =      N80FS
Show Me Something I Can Use,          ! ARMY MARS = AAN5HJT
Push The Buttons,                     ! CB =      THE NEON KNIGHT
Connect The God-Damn Dots!!! - Ministry ! HACKER =  TH3 N30N KN16Ht
```

From qrp-request@Think.COM Wed Dec 1 23:13:39 1993

From: andrews@fms.com (Andrew Sargent N80FS)
Subject: Re: QRP|Any more Ascii schematics for qrp rigs???
Date: Wed, 1 Dec 1993 23:07:56 -0500 (EST)

> From wariat!okanagan.bc.ca!awpaeth Wed Dec 1 17:25:54 1993
> Return-Path: <wariat!okanagan.bc.ca!awpaeth>
> Received: from wariat by fms.com with uucp (Smail3.1.28.1 #1)
> id m0p4zzd-0000wbC; Wed, 1 Dec 93 17:25 EST
> Received: from okanagan.bc.ca by wariat.org with smtp(/\\=\\ Smail3.1.28.1
#28.5) id <m0p4yCY-0001coC@wariat.org>;
> Wed, 1 Dec 93 15:31 EST for <andrews@telemax.com>
> Received: by okanagan.bc.ca (4.1/SMI-4.1)
> id AA01167; Wed, 1 Dec 93 12:30:09 PST
> Date: Wed, 1 Dec 93 12:30:09 PST
> From: awpaeth@okanagan.bc.ca (Alan Paeth)
> Message-Id: <9312012030.AA01167@okanagan.bc.ca>
> To: andrews@telemax.com
> Subject: Re: QRP|Any more Ascii schematics for qrp rigs???
> Content-Type: text
>
> Andrew, is there an FTP server where I can get more of these goodies?
>
> /Alan Paeth
> KD3XG/VE7OKA
>
Beat's the #\$\$%& out of me... What _is_ ftp???

--

Tell Me Something I Don't Know,	! HAM	=	N80FS
Show Me Something I Can Use,	! ARMY MARS	=	AAN5HJT
Push The Buttons,	! CB	=	THE NEON KNIGHT
Connect The God-Damn Dots!!! - Ministry	! HACKER	=	TH3 N30N KN16Ht

From qrp-request@Think.COM Wed Dec 1 23:31:11 1993
From: andrews@fms.com (Andrew Sargent N80FS)
Subject: Re: QRP|Any more Ascii schematics for qrp rigs???
Date: Wed, 1 Dec 1993 23:29:47 -0500 (EST)

> From wariat!uhunix.uhcc.Hawaii.Edu!jherman Wed Dec 1 12:03:47 1993
> Return-Path: <wariat!uhunix.uhcc.Hawaii.Edu!jherman>
> Received: from wariat by fms.com with uucp (Smail3.1.28.1 #1)
> id m0p4uxu-0000wZC; Wed, 1 Dec 93 12:03 EST
> Received: from uhunix.uhcc.Hawaii.Edu by wariat.org with smtp(/\\=\\
Smail3.1.28.1 #28.5) id <m0p4lJC-0000vfC@wariat.org>;
> Wed, 1 Dec 93 01:45 EST for <andrews@telemax.com>
> Received: from (uhunix3.uhcc.Hawaii.Edu) by uhunix.uhcc.Hawaii.Edu (4.1/Sun690)
> id AA27947; Tue, 30 Nov 93 20:45:09 HST
> Received: by (4.1/uhunix3.uhcc.Hawaii.Edu)

> id AA11972; Tue, 30 Nov 93 20:45:08 HST
> Date: Tue, 30 Nov 93 20:45:08 HST
> From: Jeff Herman <jherman@uhunix.uhcc.Hawaii.Edu>
> To: andrews@telemax.com
> Subject: Re: QRP|Any more Ascii schematics for qrp rigs???
> In-Reply-To: Your message of Tue, 30 Nov 1993 23:34:14 -0500 (EST)
> Message-Id: <CMM.0.90.2.754728308.jherman@uhunix3.uhcc.Hawaii.Edu>
> Content-Type: text
>
> I'll get some more of those QRP projects typed up - I promise!!
>
> Jeff NH6IL
>

Cool deal... No rush dude, us No-Codes had to wait for years, we can wait. We've learned patience because of the Upper-Class Communists in the area who believe "those damn No-Codes should only be seen at Hamfests and never heard on the air. These lid's, kids, and space caddets will learn to obey us."

No offense to most Extra's, Advanced, and Generals; Just to those who oppress!!!

Even though the No-Codes could not operate most of the rigs in your previous posts, we did build them and had our Non-Communist Elmers operate them for us...

All the qrp rigs I have recieved have been sent to most of the local club's newsletter-editors, some of them are being reprinted...

My goal is to build one of each qrp rig I recieve; later, I may go into mass production (with some minor modifications, of course).

--

Tell Me Something I Don't Know,	! HAM	=	N80FS
Show Me Something I Can Use,	! ARMY MARS	=	AAN5HJT
Push The Buttons,	! CB	=	THE NEON KNIGHT
Connect The God-Damn Dots!!! - Ministry	! HACKER	=	TH3 N30N KN16Ht

From qrp-request@Think.COM Mon Nov 22 11:10:59 1993
Date: Mon, 22 Nov 93 11:07:59 EST
From: Frank.Milos@East.Sun.COM (Frank Milos - Sun USOPS CSU Manufacturing Engineering)
Subject: RADIO T-shirts

OK, guys...don't put your typewriters away yet.

In the November issue of CQ on page 77, feast your eyes on the NEW RADIO T-SHIRTS!!!

Two that are depicted...

12 o'clock position ----> "Life is too short for QRP"

4 o'clock position ----> "QRP is not for sissies"

Put in your order -or- put in your complaint.

72

Frank - N01E

From qrp-request@Think.COM Thu Dec 2 09:45:18 1993
Date: Thu, 2 Dec 93 08:51:25 CST
From: cieslak@cg9.eda.mke.ab.com (Brian Cieslak)
Subject: Re: Randy's story

Randy,

I remember when I got into radio back in 71 there was a 73 issue that had a whole bunch of tube type qrp rigs in it....Did you ever see it?

I would like to find a copy of that issue. If anybody out there has a copy I would like to make some xeroxes of some of the articles.

73,
Brian - AE9K

From qrp-request@Think.COM Sun Nov 28 13:45:40 1993
Date: Sun, 28 Nov 93 10:45:03 PST
From: dh@deneb.csustan.edu (Doug Hendricks)
Subject: Rayovac Renewal Batteries

I picked up some of the new rechargable alkaline batteries at Fry's Electronics yesterday. They cost \$5.89 for four AA, and the Charger was \$13.25. It takes 3 to 5 hours to charge the batteries, they are supposed to last 25 cycles, and they come fully charged. If these babies are for real, watch out nicads. Any one else had any experience with these? CUL, 72, Doug

From qrp-request@Think.COM Mon Nov 29 12:34:43 1993
Date: Mon, 29 Nov 93 11:34:34 CST
From: dadams@cherry.cray.com (David Adams)
Subject: Re: Rayovac Renewal Batteries

Can these really compete with nicads? Given that most nicads can be recharged > 1000 times? Granted each cycle is shorter, but 25 times does seem awfully short.

Sourdough and Ham KG0IO

--David C. Adams internet: dadams@cray.com
Statistician uunet: uunet!cray!dadams
Cray Research Inc. packet: kg0io@tcman.#msp.mn.usa.noam

Experience --> Identify --> Analyze --> Generalize

From qrp-request@Think.COM Mon Nov 29 13:19:41 1993
Date: Mon, 29 Nov 93 18:03:32 GMT
From: jkearman@arrl.org (Jim Kearman)
Subject: Re: Rayovac Renewal Batteries

Somebody on rec.radio.shortwave did some tests on these "renewable" alkalines. He found they recovered to the same voltage whether or not he charged them, when new, but deteriorated faster when used in the charger. Ie, a ripoff.

72, Jim, KR1S

From qrp-request@Think.COM Mon Nov 29 14:01:32 1993
Date: Mon, 29 Nov 93 14:01:19 -0500
From: wb9omc@ecn.purdue.edu (Duane P Mantick)
Subject: Re: Rayovac Renewal Batteries

I suspect you'd need to weigh it out versus the application. There appear to be some applications that are voltage sensitive. If a NiCad only supplies 1.25 volts while the Renewal cell supplies 1.5, it might be a substantial difference for those applications.

Let us also consider the environmental implications - if you go 25 times as long before you pitch them in the trash, it will slow down the rate at which this stuff accumulates in your neighborhood landfill (assuming that any sizeable part of the battery using population buys these devices).

When you consider the slime that accumulates and reacts in these landfills and then leaches out of the soil into the water you drink, such product improvements make a great deal of sense.....

Duane
wb9omc

From qrp-request@Think.COM Mon Nov 29 21:38:28 1993
From: jjw@seastar.org (John Welch)
Subject: Re: Rayovac Renewal Batteries
Date: Mon, 29 Nov 1993 08:43:42 -0600 (CST)

In your article <9311281845.AA04432@deneb.csustan.edu> ["Rayovac Renewal Batteries"], you wrote:

> I picked up some of the new rechargeable alkaline batteries at Fry's Electronics
> yesterday. They cost \$5.89 for four AA, and the Charger was \$13.25. It takes
> 3 to 5 hours to charge the batteries, they are supposed to last 25 cycles, and
> they come fully charged. If these babies are for real, watch out nicads. Any
> one else had any experience with these? CUL, 72, Doug

We've had them for a month or so - use 6 of them in a DJ-580 dual-band HT. They run quite well, and outlast the standard ni-cads by quite a long margin. We've re-charged them twice so far, not because they needed it but because we could.

Others have reported less than spectacular results, however. They have a high internal resistance, so are not good in high-current applications. Trying to get 5-7 watts out of a high-powered HT may be a no-no. Ours were used listen-mostly, talk-occasionally for a total of about 36 hours and were still running well when we re-charged them.

--

John Welch, N9JZW

From qrp-request@Think.COM Thu Dec 2 13:13:57 1993
Date: 2 Dec 1993 13:12:37 -0800
From: "Bob Scott" <Bob_Scott@cpqm.saic.com>
Subject: Re: RE-QRP - Homebrew

Reply to: RE>RE:QRP : Homebrew
For what it is worth, I agree with Daniel. I am not really into contests (I guess I will have to try one sometime), but building a kit is a far cry from buying a ricebox off the shelf. I guess if someone wanted to get picky I guess you could have 2 homebrew catagories, kit and scratch, but you could continue to subdivide ad nausium.

73
Bob
AC4QO

From qrp-request@Think.COM Thu Dec 2 11:03:32 1993
Date: Thu, 2 Dec 93 11:01:37 -0500
From: lakeith@wrdis01.robins.af.mil (CONTRACTOR Larry Keith;653 CCSG/SCT)
Subject: Re: re: QRP : Homebrew

In your message of 2 Dec 1993 at 1058 EST, you write:
> you cheaper prices and save some S/H charges. Of course a lot of
> kit vendors (like Ramsey) realize the importance of chasing down
> parts as part of the home
> brew effort and leave one or two out of the kit so you have to
> chase them down anyway.

>
>
Good help is hard to find! 8-D

Larry, KQ4BY..

From qrp-request@Think.COM Tue Nov 23 10:50:50 1993
Date: Tue, 23 Nov 93 09:56:44 CST
From: cieslak@cg9.eda.mke.ab.com (Brian Cieslak)
Subject: re; Wooden radioes Cont

Now see isn't this much more fun than griping about the League?

I started to breadboard a receiver last night...I had a lot of
real nice cedar Planks left from a deck I just had built so I
started to use those...I don't know if the rig will ever work
but it sure does smell nice....I I never get it to work I'll
just toss it in my sock drawer.

Gee cardboard sleeves for coil forms...I can only think of one
source for those these days...You 'll have plenty of time to
think about your design while your sitting and waiting for one
to become available.

Randy's suggestion of using a kleenx box seemed intriguing too.

well 73,
Brian - AE9K

ps I put cr at the end of each line...did it work ok?

From qrp-request@Think.COM Tue Nov 23 12:54:02 1993
Date: 23 Nov 1993 12:51:58 -0500 (EST)
From: "D A Coleman (ext. 2850)" <DACOLEMAN@fair1.fairfield.edu>
Subject: Re: re; Wooden radioes Cont

Dear om,

While sitting and thinking about my design, I had the insight that what I was sitting and waiting for might be too flimsy. If I recall correctly, the battery sleeves were a bit sturdier.

All kidding aside, plastic pill bottles make dandy coil forms, and you can put slugs in them, too.

You'll have the first rig that keeps the moths away; I hope it doesn't also keep the hams away.

72.4148553

Don Coleman, W1Voq

From qrp-request@Think.COM Tue Nov 23 14:01:52 1993
From: rroeder@utdallas.edu
Date: Tue, 23 Nov 1993 12:58:39 -0600
Subject: Re: re; Wooden radioes Cont

You can also use the empty (?) containers for grated parmesan cheese, Mrs Dash (the no-salt food flavoring substitute), or other differently-sized coil-forms-to-be besides the one implied in the attached message. 'Course, different diameter would change the inductance, so you might need fewer or more turns, or even a different wire size.

72 es cul de KB5ADE

-- Ron Roeder / rroeder@utdallas.edu

On Tue, 23 Nov 1993, Brian Cieslak wrote:

> Now see isn't this much more fun than griping about the League?
>
> I started to breadboard a receiver last night...I had a lot of
> real nice cedar Planks left from a deck I just had built so I
> started to use those...I don't know if the rig will ever work
> but it sure does smell nice....I I never get it to work I'll
> just toss it in my sock drawer.
>

> Gee cardboard sleeves for coil forms...I can only think of one
> source for those these days...You 'll have plenty of time to
> think about your design while your sitting and waiting for one
> to become available.
>
> Randy's suggestion of using a kleenx box seemed intriguing too.
>
> well 73,
> Brian - AE9K
>
> ps I put cr at the end of each line...did it work ok?

From qrp-request@Think.COM Fri Dec 3 11:04:14 1993
Date: Fri, 03 Dec 1993 10:58:19 -0400 (EDT)
From: "Daniel J. Curtin" <CURTIN%NKUVAX.BITNET@uga.cc.uga.edu>
Subject: Relax

The motto of the American Homebrew Association (beer that is) is "Relax, don't worry...have a homebrew." The saying is due, I believe, to the founder Charles Papazian. Perhaps we should adopt a variant.

73,
Dan, KF4AV

Daniel J. Curtin
Department of Mathematics and Computer Science
Northern Kentucky University
Highland Heights, KY 41099-1700

CURTIN@NKUVAX.BITNET
-.- ..- .---- -.-

From qrp-request@Think.COM Mon Nov 29 14:54:34 1993
Date: Mon, 29 Nov 93 11:54:08 PST
From: Gary_Thorburn_at_Notes-Gate@sceng.UB.com
Subject: Renewal Alkalines ...00PS.

Jim Kearman writes ...
>He found they recovered to the
>same voltage whether or not he charged them, when new,
>but deteriorated faster when used in the charger. Ie,
>a ripoff.

I think there is some confusion here, there were some inquiries about the Ray-O-Vac Renewal batteries, but I think the article Jim is thinking of referred to a TV-advertized charger which claimed to revive STANDARD alkaline batteries.

The jury is still out on the Ray-O-Vac Renewals.

```
||/*  
||  
|| Gary W. Thorburn    gthorbur@ub.com    KB1AIF  
||  
||*/
```

From qrp-request@Think.COM Thu Dec 2 23:34:47 1993
From: andrews@fms.com (Andrew Sargent N8OFS)
Subject: Re: repressed (was QRP|Any more Ascii schematics for qrp rigs?)
Date: Thu, 2 Dec 1993 23:33:07 -0500 (EST)

```
> From wariat!Augustana.edu!GGANDERSON Thu Dec 2 18:18:52 1993  
> Return-Path: <wariat!Augustana.edu!GGANDERSON>  
> Received: from wariat by fms.com with uucp (Smail3.1.28.1 #1)  
> id m0p5NIR-0000iyC; Thu, 2 Dec 93 18:18 EST  
> Received: from VAX.AUGUSTANA.EDU by wariat.org with smtp(/\==/\ Smail3.1.28.1  
#28.5) id <m0p5EdQ-00023fC@wariat.org>;  
> Thu, 2 Dec 93 09:03 EST for <andrews@telemax.com>  
> Received: from augustana.edu by VAX.AUGUSTANA.EDU (MX V3.2) with SMTP; Thu, 02  
> Dec 1993 07:57:40 CST  
> Received: from SORENSEN/PMail by augustana.edu (Mercury 1.1); Thu, 2 Dec 93  
> 7:56:23 GMT-5  
> From: "Kevin Anderson" <GGANDERSON@Augustana.edu>  
> Organization: Augustana College - Rock Island IL  
> To: andrews@telemax.com  
> Date: Thu, 2 Dec 1993 07:55:37 GMT-500  
> Subject: Re: repressed (was QRP|Any more Ascii schematics for qrp rigs? )  
> Priority: normal  
> X-mailer: PMail v3.0 (R1a)  
> Message-ID: <D51C5E35EF@augustana.edu>  
> Content-Type: text  
>  
> > Cool deal... No rush dude, us No-Codes had to wait for _years_, we  
> > can wait. We've learned patience because of the Upper-Class  
> > Communists in the area who believe "those damn No-Codes should _only_  
> > be seen at Hamfests and _never_ heard on the air. These lid's,  
> > kids, and space caddets _will_ learn to obey us."  
> >  
> > No offense to most Extra's, Advanced, and Generals; Just to those  
> > who oppress!!!  
>
```

> Don't worry. Soon the No Codes will be the majority, if
 > they aren't already, and shortly after will be in "charge"
 > (whatever that means).
 >
 The funny thing is that the No-Codes don't _want_ to take over, we are
 willing to experement with _anything_ we can get our paws on with respect
 of the furterance of the hobby into the 90's and beoynd!!! I'll probably
 expound on this more in the near future...
 >
 > No flame intended, nor to fuel one (this is off the
 > broadcast nets)
 >
 I wonder if it's a good idea to carry this thread on this mailing-list.
 I don't want to be flamed, but I _will_ accept constructive criticizim.
 >
 > 73 de Kevin, KB9IUA (novice)
 >
 72 de N80FS\AAN5HJT (No-Code, and _damn_ proud of it!)

```
--
Tell Me Something I Don't Know,      ! HAM      =      N80FS
Show Me Something I Can Use,         ! ARMY MARS = AAN5HJT
Push The Buttons,                   ! CB =      THE NEON KNIGHT
Connect The God-Damn Dots!!! - Ministry ! HACKER = TH3 N30N KN16Ht
```

From qrp-request@Think.COM Thu Dec 2 11:47:29 1993
 Date: Thu, 02 Dec 1993 11:41:29 -0400 (EDT)
 From: "Daniel J. Curtin" <CURTIN%NKUVAX.BITNET@uga.cc.uga.edu>
 Subject: RE:QRP : Homebrew

Dear QRPers,

For most of us the best way to work is to go from what we know to what
 we don't. Kits are a great place to start. They go together quickly, they work
 (usually), and a little staring at the schematic is educational. Then we build
 by gathering parts and following someone's published design. Then we take ideas
 from one project and try to incorporate them in another. This is the stage at
 which much smoke is generated (in the projects and in our ears.) Then we design
 some new circuits no-one has ever tried before and become famous!

Needless to say I am floundering around in the first several stages,
 and having a great time.

Let's accept kits as homebrewed. It will encourage kit companies, who
 then will have parts for us, and will help lure newcomers into the joys (!?) of
 building.

As an aside, beer homebrewers do accept kit brews in their competitions, while the real fanatics sprout their own barley and grow their own hops.

73,
Dan, KF4AV

Daniel J. Curtin
Department of Mathematics and Computer Science
Northern Kentucky University
Highland Heights, KY 41099-1700

CURTIN@NKUVAX.BITNET

..- ..- ..- ..- ..- ..-

From qrp-request@Think.COM Fri Dec 3 09:04:01 1993
Date: Fri, 3 Dec 93 09:08:35 EST
From: bapplega@isd.csc.com (Bob Applegate)
Subject: SBL-1 availability

Someone out there must be buying SBL-1 mixers: where can I order them from?

Thanks,
Bob, wa2zzx

From qrp-request@Think.COM Fri Dec 3 11:14:38 1993
Date: Fri, 3 Dec 1993 11:11:13 -0500 (EST)
From: howie cahn <howi@world.std.com>
Subject: Re: SBL-1 availability

On Fri, 3 Dec 1993, Bob Applegate wrote:

> Someone out there must be buying SBL-1 mixers: where can I order them from?
>
> Thanks,
> Bob, wa2zzx
>

You can get them from Ocean State Electronics, 1-800-866-6626.
Unfortunately, they're \$6.75 each. (Ordering direct from Mini-Circuits they're \$4.75, but there's a minimum.)

- howie, wb2cpu

From qrp-request@Think.COM Fri Dec 3 11:50:12 1993
From: Jeffrey Yuan <yuan@phoenix.Princeton.EDU>
Date: Fri, 3 Dec 1993 11:11:26 -0500
Subject: Re: SBL-1 availability

In message <9312031408.AA00749@isd.csc.com> Bob Applegate writes:

> Someone out there must be buying SBL-1 mixers: where can I order them from?
>

> Thanks,
> Bob, wa2zzx
>

I have ordered them directly from the manufacturer, MiniCircuits. They are very nice, extremely prompt, and take AMEX. I have their address and phone number at home if you are interested. Finally, I believe they have a very low minimum order requirement, I ordered 5 SBL-1 and received their large RF Designers Guide/Catalog in two days. (Just a satisfied customer)

73,
Jeff N2NXC

```
*****
* Jeffrey Yuan *
* Department of Molecular Biology *
* Lewis Thomas Laboratory *
* Princeton University *
* Washington Road Phone: 609-258-5939 *
* Princeton, NJ 08544 email: yuan@phoenix.princeton.edu *
* jyuan@molybio.princeton.edu *
*****
```

From qrp-request@Think.COM Fri Dec 3 11:24:58 1993
Date: Fri, 3 Dec 93 08:26:08 PST
From: Raymond.Anderson@EBay.Sun.COM (Ray Anderson)
Subject: Re: SBL-1 Mixer Sources

WA2ZZX writes:

>Someone out there must be buying SBL-1 mixers: where can I order them from?

>Thanks,
>Bob, wa2zzx

Bob,

SBL-1 mixers are made by Mini-Circuits of Brooklyn, NY.
The phone number of their North American distribution center

is (800) 654-7949 (They have a \$50 minimum order though).

They also have network of local distributors which will sell in small quantities. The East Coast distributors include:

MCL Distributors Inc in Columbia MD (800) 442-3177

Component Distributors Inc. Norcross, GA (800) 848-4234

Spectrum Sales Inc. Hartsdale, NY (914) 472-8600

Robtron Inc. Skaneateles, NY (315)685-5731

Hope that gives you enough info to get started with. BTW, I notice the 93/94 catalog lists the SBL-1 @ \$4.75 each in quantity 1-9.

Good Luck es 72's,
Ray WB6TPU

From qrp-request@Think.COM Fri Dec 3 14:38:59 1993
Date: Fri, 3 Dec 93 14:38:46 EST
From: doug.snowden@ccd.harris.com (Doug Snowden)
Subject: Re: SBL-1 Mixer Sources

Well, I could use at least 3 sbl-1 mixers. Why doesn't one person get up a list of people, collect their money and order at least 50 of them. He could add the postage for each distribution. Just because I suggested this doesn't necessarily mean I want to be the one.

Doug, N4IJ

From qrp-request@Think.COM Sun Nov 21 02:58:51 1993
Date: Sat, 20 Nov 93 23:58:12 PST
From: dh@deneb.csustan.edu (Doug Hendricks)
Subject: Scope Article Needed for QRPP

Gang,
I have a good idea for an article for the net and for QRPP. But, I don't have the expertise to write it, so I am asking for help. What I would like to have is an article on Scopes. What kind does the average ham need? How many MHz??? And, more importantly, how do you use it? Can you write an article that explains how to use a scope to help align a QRP transceiver? Tell us what settings to use, where to hook it up, in fact, just assume that we know nothing about scopes (which I and several others don't). The article can be any length that is necessary to get the message across. Please Email to me dh@csustan.edu . 72, Doug, KI6DS

From qrp-request@Think.COM Fri Dec 3 17:15:27 1993

Date: Fri, 3 Dec 93 16:14:36 -0600
From: adams@chuck.dallas.sgi.com (Chuck Adams)
Subject: Sprint Saturday

Anybody we should be looking for during the Sprint Contest tomorrow?

I don't have the rules yet, but I'm looking through the pile of junk that I've accumulated the last three months but haven't gotten to. :-)

If I owe you something, send me email and I'll let you know what the state is. I've started the University Program, so if you haven't gotten mail from me on that then send me a note saying so.

dit dit

SIG

-----cut here-----

Chuck Adams, K5FO - CP60
adams@sgi.com
QRP ARCI Awards Chairman

From qrp-request@Think.COM Sun Nov 21 22:01:29 1993
From: jjw@seastar.org (John Welch)
Subject: SSB detection with phasing
Date: Sun, 21 Nov 1993 20:46:05 -0600 (CST)

In response to the great discussion here and in rec.radio.amateur.homebrew, I've decided to try a phasing receiver just for funsies. I'm almost done with the one described in the Signetics databook (using 2 NE602s, some op-amps, a 4053 and a bunch of high-precision caps and resistors).

The 'heart' of this is a broad-band active audio phase shifter, requiring 12 10K resistors, 6 1000pf caps and a few other resistor values. Supposedly, for best results .1% parts would be best.

For the 10Ks, I got lucky. The engineering stockroom has (had :-)) some 10K 0.1% resistors. The 100pf caps I got by matching from my pile of sm 5% caps - matched to 4pf according to my cap meter. The other resistors are 1% values.

The rf is generated in quadrature by a 74F74 flipflop dividing down a 48MHz signal to 12MHz. I may be able to get a better looking signal if I change my 74HC14 to a 74F14 (an attempt to better square up the 48MHz signal). From scope and spectrum analyzer, the signal looks lousy. It *is* 12MHz, but has little resemblance to a square

wave - more of a rounded ramp. I'll try it this way firstm and if I can find a 74F14 I'll try that too.

The main reason I'm using a 12MHz if is that I have built a 9-pole crystal filter at that frequency, to add ahead of the phasing if strip if needed. Methinks it will be heavy overkill, but between the filter and the phasing I expect to get rather decent selectivity ;-)

The front end will probably be a bandpass filter followed by an SBL-1, with my trusty DDS signal generator providing the LO (after some additional amplification required to drive the SBL-1 of course). With luck, I'll have a reasonably bullet-proof front end.

For testing purposes I'll only build it for one band (40, 30 or 20 depending on the parts I don't have for the bp filter). I hope to have it kludged up this week, and I'll let y'all know how she flies. If she flies well, I'll try to get dork-cad to put out a postscript file and enter it here. Stay tuned for more details.

72

--

John Welch, N9JZW

From qrp-request@Think.COM Thu Dec 2 03:45:36 1993

From: randy@cyphyn.radnet.com (Randy)

Subject: story

Date: Thu, 2 Dec 1993 03:41:16 -0500 (EST)

QRP is not dead, it just doesn't make as much noise.

I'm not a full time QRPer, but I've been called and QSO'ed by em and have run QRP myself, and YES...it is fun!

Having done it quite a few times, right on down to 35 milliwatts, it started to get to where I said 'now what?'

I enjoy building the sets, and I'm into tubes, so most what I have made in the 4 years sence I've been liecenced, has involved tubes.

Sence, too, I am not afraid of CW (its CW that drew me to Ham radio, but don't tell the anti-code guys that!), all my rigs were CW jobs, and ran off a crystal....well, one had a VFO, and made great morning dove sounds...

This past summer, I put together a triode tube oscillator-output set, using a single #26, 4 prong tube....built as near as I could do it, to be how they did it back in the 20's (but , I used a crystal rather than a wild oscillator, tuned more by the swaying antenna than the operator!)

I lit it up, and it worked, until the filament resistor burned out.

I contacted a couple guys on it who had no idea what a tube was, so, I said it was a qrp, home made set... and let it go at that...poor guys, not knowing what tubes were.....

Then, it occurred to me that I never heard this thing at a distance.. So, I gave the set to N1KGY who is a new ham but is deep into home making too and was tickled pink to lite up a tube older than he was.

Temporarily, having lost the filament resistor, we had to sub a 811A which let us use 6 volts for the filament, and with 110vdc, it put out about the same as the #26 would.

A quick test from his site with it proved, that 1/3 watt would do it... so we aimed towards a nite to use the #26 (1/4 watt) once he got the filament resistor....to drop 6 vdc to 1.5 vdc.

80 meters is a mad house between dusk and midnite, so we'd try to get on before nite fall...ie...AT the start of dusk...when probagation would be 'good enough', altho low.
That was the plan.

Each nite, with the sked only of 3700kc, and sometime between late afternoon and past-dusk, I'd sit there and monitor 3700kc for his call. (We normally sit on a freq anyway , to call/qso when air permits, so this was no major change from our usual radioing... except for the signal levels involved , and no warning he'd be on.)

I'd hear other stations out there, but...nope...that one is an 8 call... and he's calling his ladyfriend again... to drive her crazy with his electronic keyer...

... nope... thats just someone trying to find where the plate tune knob is on their rig.... (hurry up! dip the plate before you have a China syndrome on yer table there!)

Then , one nite, when I had given up on him , with now many stations getting tuned up and 2 QSO's on either side, I heard...

KA--N- K-1--W K----- de N--G- N1--Y K way out there and right smack under some one tuning up...all the sig did was shift in loudness!

So, sence 'qrmng' a tune-up is not possible, I zeroed in carfully to be the same pitch as he was on the receiver, and verified I was dipped, while he made his 2nd call to me...and the tuner upper was still finishing up...

-A1U-- KA--- [my tune up] KGY K

I returned, with N1KGY de KA1UNW KN KN KN (to make sure no one else roared in to steal the qso, as has happened several times in the past.)

Upon, de-keying, the air was awfully free of noises...as if I had blown away the ether and its signals.....only the normal popcorn noise of the air was there....and....--1UNW KA1UNW de N1KGY N1KGY RRR ON 26
0- -6 -il vol-- a-e -.5 1.- K (Yow..on the peak he hit S3!
And, he got the resistor! That was the 26 he was on! fil volts at 1.5 !)

I almost forgot to reply...so I flobbed the start and sent Yukalese language, and his RST...

#%\$* glip glork..de KA1UNW. OK. UR RST 239 239 WID QRM BOTH SIDES K

My slobberly CW tripped him up and that blew it for us...

?? de N1KGY. WHA- -ID - - AY? -ID -O- MAK- OUT 1S- PAR-.K

So, I sent, ALL OK ALL OK GUD SIG GUD SIG OK? KN

He knew that we can 'lose-it' and I'd short-cut to stuff like that and had probably forgotton how tiny his sig was...

Having verfied it would work, and that a --what--60 year old tube? had made that signal, using a design that was about as old, on a dangle-wire antenna at his place (60 ft of wire tossed into a tree), That was enough to call it a success, and so I sent him XGUD XGUD XGUD- GET ON BIG RIG (his TR-3) K

Neither one of us wanted to mess up the tube or the crystal, for some future use...who knows...some day some field day will have an ALL TUBE plus QRP TUBE site!...Battery op should even be possible!

(JUST to do it...no other reason)

For regular use, I've a 6AG7 rig 1/8 completed, and will air that myself.

--
Randy KA1UNW If you get a shock while
 servicing your equipment, "Works for me!"
randy@192.153.4.200 DON'T JUMP! -Peter Keyes
 You might break an expensive tube!

From qrp-request@Think.COM Tue Nov 30 16:41:10 1993
Date: Tue, 30 Nov 93 21:21:49 GMT
From: jkearman@arrl.org (Jim Kearman)
Subject: Temporary Outage at ARRL

I've just learned that our Internet connection is going to be upgraded. Good news. The bad news is, we won't be

getting mail or news for as much as a week. We don't expect to lose mail, but some news will be lost.

So....if you gotta get in touch with me, call:

203-666-1541 ext 279

I'll post again when I'm back on line.

73, Jim, KR1S

--

jkearman@arrl.org

From qrp-request@Think.COM Fri Dec 3 15:03:06 1993

Date: Fri, 03 Dec 1993 14:04:08 -0600 (CST)

From: "JEFF M. GOLD" <JMG@tntech.edu>

Subject: Ten Tec Kits

All,

Here is a brief summary from Ten Tec about their kits..

They are willing to get into the kit business as much as is profitable (don't take this wrong.. basically the want to produce High Quality kits as long as there is a market for them.. as the market shows them it is alive, they will expand their offerings)

first stage:

10-15 small single board one nighters such as audio amplifiers (I think he said under \$50)

second stage:

5-10 projects like receivers and QRP transmitters in the \$40-\$100 range, one will be a 2 meter brick couple in about 30 watts out

By Dayton:

2 meter synthesized programmable 2 meter transceiver- about 10 channels for under \$200 [put me in for one]

that's it so far.

The catalogs and first kits should be available in a few weeks.

72

Jeff, AC4HF

From qrp-request@Think.COM Thu Dec 2 17:33:55 1993
Date: Thu, 2 Dec 93 16:33:28 CST
From: dadams@cherry.cray.com (David Adams)
Subject: Ten Tec Kits.

Did anybody notice the add for Ten Tec Kits in QST?

It says,

"KITS ARE BACK!

Introducing TT* Kits
A new division of Ten-Tec
Call 615-453-7172
to request your
kit catalog"

I just called and requested the catalog. I was told it would take 4 to 6 weeks.

That was fine with me. I am still saving away, trying to recover from the recent local hamfest.

So what I am dying to know is if I will be able to buy the Ten Tec Scout 555 as a kit? I wonder if I will be able to get kits for some of the band modules? I wonder if it will be possible to homebrew band modules to cover other bands or offer other features? I wonder...

Has anybody seen the catalog? Well, I'll tell ya more next month.

Also, does anybody know if the 291 Antenna Tuner for the Scout is an automatic tuner? I suppose not for \$89.

Has anyone tried the 607 Weighted Key Paddle for the Scout? Do you like it? Where does it plug in?

How does the power adjustment work on this radio? Do you have an option to bypass an amp stage or do you just attenuate some of the final power?

What features does a fancy Radio, like the Icom 735 have that this

doesn't?

I know that several people have pointed out that by the time you buy all the modules, (and the bracket, mike, etc. are all extra) you are paying two or three hundred more (depending on the accessories) and you could probably buy a nice used Icom 735 for that price.

I would note, that in a couple of years you can probably buy a nice used Ten Tec Scout 555 for a little better than \$495. Also I might expect the \$495 to drop some over the next year or two. And If I can save some by building a kit, that would really be neat. Of course I am dreaming, and wildly speculating on that one.

Ya, know, I would like to homebrew some type of interface for a computer, so that you could have the computer set the vfo frequency, etc. Then you could write a program to make the computer control the radio. "Virtual Radio." Then the program could always add all kinds of bells and whistle features, like all the memories you could ever want. Like scanning, like The computer could also handle the TNC. The computer can log the contacts. The computer can display the map of the world. You can point and click on the location of that DX contact and see the current time there. Sunclock on the Mac will do this and let you see where the gray line is at any moment.

The ideal set up would be a notebook or powerbook computer controlling a small radio like this mobile, or even while backpacking.

BTW, Sourdough is good homebrew.

Sourdough and Ham KG0IO

--David C. Adams	internet:	dadams@cray.com
Statistician	uunet:	uunet!cray!dadams
Cray Research Inc.	packet:	kg0io@tcman.#msp.mn.usa.noam

Experience --> Identify --> Analyze --> Generalize

From qrp-request@Think.COM Fri Nov 26 19:44:10 1993
From: andrews@fms.com (Andrew Sargent N80FS)
Subject: TEST, please reply with time recieved
Date: Fri, 26 Nov 1993 14:14:34 -0500 (EST)

Test message...

Please reply with time recieved...

--

Tell Me Something I Don't Know, ! HAM = N80FS
Show Me Something I Can Use, ! ARMY MARS = AAN5HJT
Push The Buttons, ! CB = THE NEON KNIGHT
Connect The God-Damn Dots!!! - Ministry ! HACKER = TH3 N30N KN16Ht

From qrp-request@Think.COM Sat Nov 20 16:33:14 1993
Date: Sat, 20 Nov 93 11:32:59 HST
From: Jeff Herman <jherman@uhunix.uhcc.Hawaii.Edu>
Subject: The 10-4 folks

Randy,

Are these 10-4 people you referred to CB'ers who got lost? If so, why not have a CW QSO right on top of them? If they shift one way or the other just follow them. We've got to get these slobs off of 10M and push them back down to 11M.

Jeff NH6IL

From qrp-request@Think.COM Fri Dec 3 11:00:03 1993
Date: Fri, 3 Dec 93 11:00:05 EST
From: skitch@NADC.NADC.NAVY.MIL (M. Squicciarini)
Subject: This weekends sprint

Is this contest only restricted to homebrewed rigs or do the homebrew rigs get an extra bonus. I've "modified" my argosy but that was only adding a cap to get rid of the popping and changing a cap to lower the noise floor (that's really tomorrows project) and I would not call what I've done homebrewing. If someone has all the rules I would appreciate it if you could send/post them.

On another topic. I was at my local club meeting and talked to a few people about getting together and homebrewing. There seemed to be osome interest and after the holidays I'll try and arrange a meeting at my house. If anyone is in the Philadelphia area and would be interested in getting together let me know.

The meeting last night was the club auction and I picked up a small B&W TV for parts for a \$1 and much to my surprise when I plugged it in and hooked up the ant it worked fine. No new parts but another TV.

73 -- marty -- nr3z

skitch@nadc.navy.mil

Newsgroups: rec.radio.amateur.homebrew
 Path: fmsystem.telex.com!nshore!usenet.ins.cwru.edu!howland.reston.ans.net!
 newsserver.jvnc.net!a3bee2.radnet.com!cyphyn!randy
 From: randy@cyphyn.radnet.com (Randy)
 Subject: 1 TUBE transmitter for QRP
 Message-ID: <1993Nov26.233611.11152@cyphyn.radnet.com>
 Organization: Evil Weather Machines LTD
 X-Newsreader: TIN [version 1.1 PL6]
 Date: Fri, 26 Nov 93 23:36:11 GMT
 Lines: 81

```

      1      8 -----|-----|
          |__|__|
          |-----.....6-----|____) 15uh
          |_____.....| 50pf _|_| )
          ###|-----| / | ) 50-75 ohms
          4 | | | 5 | ) o out
            | | | | / | ) ( o gnd
            | | | |###) |
+---[0]----+-)(---+-)(--+ |_____| ###
|           | 22pf | 220 |         | _|.01
### 7110kc <      ( pf###
xtal        >      (         | ____
FT-243     56 >      ( 1 mh    o   ### | common wire
K           >      (         170vdc ### GND/chassie
          |--)(---|
          | .01 `---o key
          ### +---o
          |
/\       |
| |      ###
o o 6.3vac 650ma
2 7 heater

```

decimal caps = uf
 pf = uuf
 caps rated 250v
 resis " 1/4 w any%
 all crossing lines are connected

4	5
0	0
30	06
20	07

o v o
1 key 8 Expect 300 mw aprox output.
way

15 uh ... 35 turns 7/8" dia, 1 " long
link coil 6 turns #22 to 28 wire OK

50 pf ok if FRS's 55pf trimmer cap
Xtal WOLPS (CW Crystal co)
Tube socket FRS or Antique Electronic Supply (AES)

FRS= Fair Radio Sales

170vdc is from a 110-125vac xformer..whose 6.3 v 600 ma coil is wired to the Filament xformer (6.3vac 2 amps).

This converts 6.3 v back up to isolated 110vac.

A bridge rect (400piv 1 amp) followed by 220 uf 200vdc electrolytic will make 175-180vdc (no load).

At 35 ma, it may fall to 150vdc, but is OK for this rig.

Note...a 6CL6 or 12BY7 (different socket wiring) will work the same as this one will....so, a sub of tube (and rewire socket) can be done. Those 2 tubes are 9 pin mini tubes
12HG7 will sub 12BY7 directly. (if ya need info on that, buzz me)

Note... a 5902 sub-mini tube (direct-solder in like a transistor) will also work in ckt above, but B+ must be dropped to 90-120vdc. A choke (8-16 hy 40ma) put between 220uf 200v and rect. will do that.

Tune up: Altho a 3 volt 25 ma bulb in series to the key will work as a current indicator, you can use station Rx set to tell when it is correctly tuned (least chirp & raspyness as you key). Full power does not quite occur at same point as best keying does... no loaded osc ever does....but you'll have same S-reading 'out there' so just go for a clean sig.

Start with the 50pf at full mesh, tap the key repeatedly and adj the cap until you hear the signal (see it on bulb as a sudden change in britness)..or see it on a watt meter (good luck!), if it can read that low.

Then adj for cleanest signal.

--

Randy KA1UNW

randy@192.153.4.200

If you get a shock while
servicing your equipment,
DON'T JUMP!

"Works for me!"
-Peter Keyes

You might break an expensive tube!

From qrp-request@Think.COM Wed Nov 24 17:21:54 1993
Date: Wed, 24 Nov 93 16:21:39 -0600
From: adams@chuck.dallas.sgi.com (Chuck Adams)
Subject: Ungar Tip

The other day I posted a note about the Ungar Iron-Clad Tip. The part number was PL-823 and at the time I bought it the price was \$1.35. Price may vary now. :-)

It's a good tip highly recommended by me.

dit dit
SIG
-----cut here-----
Chuck Adams, K5FO - CP60
adams@sgi.com
QRP ARCI Awards Chairman

From qrp-request@Think.COM Fri Dec 3 14:32:55 1993
Date: Fri, 3 Dec 93 13:32:02 -0600
From: adams@chuck.dallas.sgi.com (Chuck Adams)
Subject: University

sorry to use up the bandwidth.

having problem getting mail order university installments to

rj13f@shamash.cs.virginia.edu

and

skitch@NADC.NADC.NAVY.MIL

you guys send me your email address. not accessable from me to you as shown.

thanks,
SIG
-----cut here-----
Chuck Adams, K5FO - CP60
adams@sgi.com

QRP ARCI Awards Chairman

From qrp-request@Think.COM Fri Dec 3 19:52:01 1993
Date: Fri, 3 Dec 93 19:30:59 EST
From: rjl3f@shamash.cs.virginia.edu
Subject: University

Sorry Chuck, please use the following address:

rjl3f@uvacs.cs.virginia.edu

Bob (N4AHB)

From qrp-request@Think.COM Mon Nov 22 15:00:27 1993
Date: Mon, 22 Nov 93 14:59:45 -0500
From: okas_rp%ncsd.dnet@gte.com
Subject: Unsubscribe

Please temporarily unsubscribe me. I'll be away from the 'puter for a bit.

From qrp-request@Think.COM Fri Dec 3 02:29:55 1993
Date: Fri, 3 Dec 93 02:29:50 EST
From: Mark Shelhamer <ms@space.mit.edu>
Subject: Varactor VF0???

For you more experienced homebrewers - can anyone tell me why varactor diodes are not more widely used in QRP VFOs? It seems to me that their much smaller size and mechanical stability, compared to air variable caps, would make them ideal for QRP gear, especially backpackable gear.

There must be some deep dark secret about these that I don't know. Or is it just a small capacitance range?

73

Mark WA3YNO

From qrp-request@Think.COM Fri Dec 3 09:40:27 1993
Date: Fri, 3 Dec 93 09:08:24 EST
From: epacyna@auratek.com (Edward Pacyna)
Subject: Re: Varactor VF0???

>There must be some deep dark secret about these that I don't know.

There aren't deep dark secrets, but you need to be careful in their application.

First of all they have a very large negative temperature coefficient (typically N350, that is -350 parts / million / degree C). However, there are some pretty good temperature compensation techniques that can be applied to attain reasonable stability.

Also their Q is somewhat limited compared to an air variable. Low noise VFO's require high Q tuned circuits. Again careful application can minimize the degradation.

One last factor is that the diode bias needs to be higher than the RF voltages present in the circuit.

Casual application is usually a poor result. They are small, cheap, available and can produce good results.

There have been a few good articles published in QST and Ham Radio magazine over the last 20 years. Motorola has some good application notes on their application too.

73

Ed W1AAZ

From qrp-request@Think.COM Fri Dec 3 10:00:37 1993
Subject: Re: Varactor VFO???
Date: Fri, 03 Dec 93 09:59:26 EST
From: "John F. Woods" <jfw@ksr.com>

> For you more experienced homebrewers - can anyone tell me why varactor
> diodes are not more widely used in QRP VFOs? It seems to me that their
> much smaller size and mechanical stability, compared to air variable
> caps, would make them ideal for QRP gear, especially backpackable gear.

They suffer from two chief problems. First, their minimum to maximum ratio usually isn't very good; 3 to 1 is pretty typical for varactors, though you can find them as high as 15 to 1 -- only in very high maximum capacitance devices, however. This makes it somewhat difficult to choose circuit components around varactors, and exacerbates their other disadvantage: temperature stability, or rather their glaring lack of it. There are several schemes for temperature compensating varactors, but they usually either are just close enough to let a PLL take care of the rest with less effort, or they involve lots of empirical component selection.

That said, there are some rigs that use varactors, and as long as you keep

the temperature constant, they do quite well.

From qrp-request@Think.COM Fri Dec 3 10:46:15 1993
Date: Fri, 3 Dec 93 10:46:19 EST
From: doug.snowden@ccd.harris.com (Doug Snowden)
Subject: Re: Varactor VFO???

Now you hit an area that I am interested in learning about (Phased Lock Loops). Anybody built one for the HF frequencies? I haven't really gotten much encouragement to build or design anything myself. Seems like one could make it easier on himself by making it have a slow lockup time in the instance of a transmitter, and since we are dealing with QRP, and probably a monobander type design the frequency step could be as large as 1 khz and still be practical. I think, from what I have read, that would make the implementation of the loop filter easier.

Have a good weekend guys. I'll be going to a local hamfest looking for parts for a 4-1000 linear amplifier. So I am another of those that runs a KW when trying to up my DXCC total and QRP for the rest of the fun.

73's Doug, N4IJ

From qrp-request@Think.COM Fri Dec 3 11:40:53 1993
From: Jeffrey Yuan <yuan@phoenix.Princeton.EDU>
Date: Fri, 3 Dec 1993 11:06:15 -0500
Subject: Re: Varactor VFO???

In message <9312030729.AA23467@Early-Bird.Think.COM> Mark Shelhamer writes:

>
> For you more experienced homebrewers - can anyone tell me why varactor
> diodes are not more widely used in QRP VFOs? It seems to me that their
> much smaller size and mechanical stability, compared to air variable
> caps, would make them ideal for QRP gear, especially backpackable gear.
>
> There must be some deep dark secret about these that I don't know.
> Or is it just a small capacitance range?
>
> 73
> Mark WA3YNO
>

I believe the reason is that varactor diodes exhibit more drift due to temperature shifts than variable capacitors. Varactors are used in the VCO of many phase locked loop frequency synthesizers. Caveat emptor, all this rambling is from reading the literature not from practical experience :). Others on this mailing list may have a more satisfactory answer.

73

Jeff N2NXC

(Armchair Homebrewer)

```
*****
* Jeffrey Yuan *
* Department of Molecular Biology *
* Lewis Thomas Laboratory *
* Princeton University *
* Washington Road Phone: 609-258-5939 *
* Princeton, NJ 08544 email: yuan@phoenix.princeton.edu *
* jyuan@molybio.princeton.edu *
*****
```

From qrp-request@Think.COM Fri Dec 3 13:33:57 1993

From: laurahal@microsoft.com

Subject: RE: Varactor VFO???

Date: Fri, 03 Dec 93 10:02:00 PST

Mark S. asks:

> For you more experienced homebrewers - can anyone tell me why varactor
> diodes are not more widely used in QRP VFOs? It seems to me that their
> much smaller size and mechanical stability, compared to air variable
> caps, would make them ideal for QRP gear, especially backpackable gear.

Yes and no. In addition to the undesirable temperature characteristics others have mentioned (though compensation techniques are well known), the DC you apply to the varactor must be absolutely clean or it will frequency modulate the oscillator's output. Which is how many FM transmitters do it, but is not what you want for a CW or SSB transmitter.

This includes control voltages. The pot you use to adjust the oscillator frequency must be a good one to avoid transients making a mess of your frequency, and also so that it won't wear out from excessive use, which cheap pots aren't designed for. You want the highest quality 10 turn pot you can lay your hands on for such applications.

Since any reverse-biased PN junction will exhibit a space charge and thus variable capacitance, many projects that use varactors can work fine with many diodes. Zener diodes can work well as varactors, and even a lowly 1N914 will do well if you choose the right one (the Ramsey DC receivers use them, with a Zener diode for voltage regulation). The junctions in many bipolar

transistors will work well too.

73 from Burnaby
laura VE7LDH

From qrp-request@Think.COM Tue Nov 30 11:58:33 1993
Date: Tue, 30 Nov 93 10:58:19 -0600
From: adams@chuck.dallas.sgi.com (Chuck Adams)
Subject: W1AW Rcvr

Looking at the November 1993 issue of QST, page 245, Radio Adventures Corp.,
R.D.4, Box 240, Franklin, PA 16323 (814) 437-5355

Company owned and operated by WA3FIY, author of the original article
in Feb 1992 QST.

Jim, KR1S, is right. ARRL does not do kits. :-)

Price of kit is \$29.95 + \$3.25 S&H. \$49.95 wired and assembled. Uses
L shaped chassis, i.e. no cover.

hope this helps.

dit dit (better than chirp chirp) :-)

SIG

-----cut here-----

Chuck Adams, K5FO - CP60
adams@sgi.com
QRP ARCI Awards Chairman

From qrp-request@Think.COM Thu Dec 2 15:54:03 1993
From: ryme@husky.bloomu.edu
Date: Thu, 2 Dec 93 15:57 EST
Subject: W1AW rcvr

Hi,

Thanks to Chuck Adams for the address to Radio Adventures.
Chuck posted this info before I "found" my QST issue.

And a big thanks to the QRP folks out there. Your mailings are
informative and entertaining :^)

Keep the good times rolling!
John N3PFF

From qrp-request@Think.COM Mon Nov 22 16:38:23 1993
Date: Mon, 22 Nov 93 13:31:37 PST
From: mont@ibmmail.COM
Subject: Wanted: R1 kit, any condition

I'm about to order an R1 (by Rick Campbell) receiver kit, but thought I'd ask the net first.

Do anyone have an R1 that they'd like to sell? Any condition (almost) acceptable at the right price. Please send me a note if your interested.

Send the condition of the kit (built, halfbuilt, lost some parts, still in the original package, etc) and your price including shipping to:

mont@ibmmail.com

tnx & 73,
mont, km6wt

From qrp-request@Think.COM Sat Nov 20 23:39:56 1993
Date: Sat, 20 Nov 1993 22:41:49 -0600 (CST)
From: CFM5723@tntech.edu
Subject: wanted:Argo 509

I am looking for a good Argo 509. If you have one or know of one, please give me a ring... de Conard , WS4S....72

From qrp-request@Think.COM Tue Nov 23 13:41:42 1993
Date: Tue, 23 Nov 93 13:41:39 -0500
From: wb9omc@ecn.purdue.edu (Duane P Mantick)
Subject: wood ???

I dunno, I suppose all that griping about the league might have been a case of BARKing up the wrong TREE.....

wood.....get it?

More seriously, but only slightly so, it's funny that this discussion about the (rather archaic) use of wood in radios (for anything other than decoration) comes up now. I just got a catalog from Rochester Electronics. They are a "manufacturer of discontinued electronics", and buy up dies and so on for semiconductors that Motorola, TI, et al are no

longer going to make.

Rochesters slogan?

(and this is a registered trademark)

"Leaders on the Trailing Edge of Technology" (r)

:-) :-)

I laughed so hard I nearly fell on my ass from that one.

Duane
wb9omc

From qrp-request@Think.COM Mon Nov 22 09:59:34 1993
Date: 22 Nov 1993 09:55:13 -0500 (EST)
From: "D A Coleman (ext. 2850)" <DACOLEMAN@fair1.fairfield.edu>
Subject: Re: wooden radios

Randy, etc.,

I'll go you one better than wooden cabinets. I've used a piece of a plank with brads on it for breadboarding a circuit. I got the technique from my old friend Jim Wilson, W1GWC, who's been using it for years.

72.0940322

Don Coleman, W1VOQ

From qrp-request@Think.COM Mon Nov 22 14:40:16 1993
From: randy@cyphyn.radnet.com (Randy)
Subject: Re: wooden radios & carpet tacks
Date: Mon, 22 Nov 1993 14:39:56 -0500 (EST)

You HAVE been peeping over my shoulder!

Paper clips for connectors to a 6v lantern battery....well, in MY case, as the jumper to connect one to the other, for 12 volts....

Stain-to-go-with-tacks... Oh my!...The boards I used , were old, weathered, a bit warped siding-wood (?) from a torn down garage...sorta grey-brown...

Ya know.... they MAKE a 'stain' like that!

Actually, a well dried board (from pine to plywood) , while still hot, then varnish-dunked (or quickly spread it on) so to take place of any moisture and seal out any, later...is best.

I used to snitch some of my mothers canning wax (paraffin...large blocks) and melt that into the wood....my gawd how much wax it would absorb.

This made it so the wood would not act as a resistor and send B+ into a 1st grid...

Something like that once happened---drove me crazy as to why the tube kept glowing red (plate) in spite of my increasing kathode resistor values.

(This was a #42 pentode tube...was using as audio amp)

Thought the tube was sour, which meant a long walk to the local TV and Radio store down town to get it tested...it came out as OK, and so back home I would trudge , happy the tube was ok, and then..

I'd push it back in the board, and it would over-conduct again....

It took me 3 trips down town, before the guy asked what I was doing...

I explained, and he then realized what must be occurring:

The screen volts (+) was 'leaking ' thru the wood to the 1st grid.

Now ya can't get paraffin...so I use varnish...which is also getting hard to get...what with all these edible latex 'paints' in vogue now...

I wonder if Wesson oil.....

--

Randy KA1UNW

If you get a shock while
servicing your equipment,

"Works for me!"

randy@192.153.4.200

DON'T JUMP!

-Peter Keyes

You might break an expensive tube!

From qrp-request@Think.COM Mon Nov 22 11:27:19 1993

From: randy@cyphyn.radnet.com (Randy)

Subject: Re: wooden radios/brads/tacks

Date: Mon, 22 Nov 1993 11:27:00 -0500 (EST)

Oh my! Brads for solder-terms! For the crude stuff. I've done that, and I've used carpet tacks as well.

I thought I was the only one who'd do such a thing!

Whew! I feel much better now!

For the 'fancy' ones...meant to not elicit a "pleagh" sound out of any observers, I've used brass wood screws and washers...fahnstock clips* and even plain steel screws...pan head sheet metal ones are best for that...due to the head being wider-grips the wires better.

Well, I've come to a point here today, where I need decide....

Shall I change over to using a single 6AG7 tube/osc-output ...get 3/4 watt and so use a B+ for which I have xformers for....and can be fully self-contained (B+ and RF guts in same chassie..or all one one wood base)

Or use 6SJ7 osc and 6V6 final, for 3 watts out... using B+ I will need get xformer for....needing 2nd chassie/or wood base item to hold B+ on.
---which will get a metal chassie (I have) for the RF part.

--

Randy KA1UNW	If you get a shock while	
	servicing your equipment,	"Works for me!"
randy@192.153.4.200	DON'T JUMP!	-Peter Keyes
	You might break an expensive tube!	

From qrp-request@Think.COM Tue Nov 30 12:44:58 1993
Date: Tue, 30 Nov 93 17:40:37 GMT
From: PENC@psumeteo.psu.edu
Subject: Xtal controlled w1aw rx

Anyone know off the top 'o' their head which QST that the xtal controlled w1aw rx appeared in? I have all QSTs back to 1978 but am too lazy to thumb thru them all (besides lack of time). Also most are in storage temporarily so it's difficult to look through a year or two of them.
Thanks!!!

de wk2a
Richard Penc
penc@psumeteo.psu.edu

From qrp-request@Think.COM Fri Dec 3 12:11:41 1993
Date: Fri, 3 Dec 93 12:13:50 EST
From: Clark Fishman (FSAC-FCD) <cfishman@PICA.ARMY.MIL>
Subject: [To: QRD: Varactors]

----- Forwarded message # 1:

Date: Fri, 3 Dec 93 11:52:23 EST
From: Clark Fishman (FSAC-FCD) <cfishman@PICA.ARMY.MIL>
To: QRD@think.com
cc: cfishman@PICA.ARMY.MIL
Subject: Varactors
Message-ID: <9312031152.aa19716@FSAC3.PICA.ARMY.MIL>

A little story I was told at RCA in Camden ,NJ.

I guy built a synthesizer and had excessive 60 Hz. phase noise,

He told his friend and the friend dropped a rag on the synthesizer...

vola by-by noise....the glass varactor was being optically
modulated by the florescent lights.....a little paint on the
varactor did the job..

I used a power rectifier as a varactor for an ARC 5 receiver fine
tuning control...worked great...

Using back to back varactors can lower distortion in oscillators....

72.72 WA2UNN

----- End of forwarded messages